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VARIATION IN EYESIGHT AT DIFFERENT AGES, AS DETER-MINED BY THE SNELLEN TEST.

A STATISTICAL STUDY OF THE RESULTS OF VISION TESTS OF 4,862 NATIVE WHITE SCHOOL BOYS AND 6,479 MALE WHITE INDUSTRIAL WORKERS IN THE UNITED STATES.*

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In previous reports 1 the age incidence of good vision and of defective vision as determined by the Snellen test has been described for school children and for adult workers in industry. It was thought worth while to tabulate the data on the vision of the two groups in a comparable way and attempt to get curves of the incidence of good and of poor vision throughout life.

The persons included in this study are 4,862 native white school boys chiefly from 6 to 16 years of age, but with a few over 16 years, and 6,479 male white industrial workers chiefly over 18 years, but with a few under 18 years of age. The boys were attending public school in Spartanburg, S. C., and near-by mill villages, Frederick County, Md., New Castle County, Del., and Nassau County, N. Y. The industrial workers were in post offices and the glass, pottery, foundry, steel, chemical, cigar, gas, and cement industries in various localities in the United States.

Visual acuity was tested with Snellen's test types, a chart for illiterates being used for young children and for adults who could not read. The results of the eye tests for adults in industry and for part of the children were recorded in the "twenty" system, but for part of the children the results were recorded in tenths. In order to put the two types of records on a comparable basis and to have

^{*} From the Statistical Office in cooperation with the Offices of Industrial Hygiene and Child Hygiene, United States Public Health Service.

¹Standards of Measurement of Ten Thousand Male Workers: Preliminary Note, with Special Reference to Racial Factors. By L. R. Thompson and Rollo H. Britten. Am. Jour. of Pub. Health, Vol. XIV, No. 5, pp. 383-390, May, 1924.

The Eyesight of the School Child as Determined by the Snellen Test—A Statistical Study of the Results of Vision Tests of 9,245 Native White Children in New York State, Delaware, South Carolina, and Frederick County, Md., and of 2,636 White Children in Cecil County, Md. By Selwyn D. Collins, Pub. Health Rep., Vol. 39, No. 48, Nov. 28, 1924, pp. 3013–3027.

Studies in Illumination. I. The Hygienic Conditions of Illumination in Certain Post Offices, Especially Relating to Visual Defects and Efficiency. By L. R. Thompson, L. Schwartz, J. E. Ives, and N. P. Bryan. Pub. Health Bull. 140 (1924).

only three classes of vision, the persons of each age were divided into the following groups:

(1) Normal vision: $\frac{20}{20}$ or better in both eyes ($\frac{10}{10}$ or better).

(2) Moderately defective vision: $\frac{20}{40}$ or $\frac{20}{30}$ in one eye and $\frac{20}{40}$ or better in the other $(\frac{5}{10}, \frac{6}{10}, \frac{7}{10}, \text{ or } \frac{8}{10}$ in one eye and $\frac{5}{10}$ or better in the other).

(3) Markedly defective vision: 20 or less in one or both eyes

 $\binom{4}{10}$ or less in one or both eyes).

Attention might be called to the fact that these tests are made at a distance of 20 feet from the chart and are therefore not tests of near vision. It might also be stated that normal vision in both eyes according to the Snellen test could not be interpreted as perfect vision, inasmuch as many persons, particularly children, are able to read the line on the chart for normal vision and yet have some latent refractive error which, for the time, is compensated by superior accommodation.

Table 1 shows by age the percentage of persons examined who were found to have vision of the specified acuity, the three classes already described being used. Figure 1 shows the same thing graphically, both the actual points and an apparent line of trend being shown. In drawing this line to show the trend, it has been intended to show only the very general and obvious direction, for it was not felt that the data were sufficient to describe more exactly what happened in any particular age period.

Table 1.—Percentage of persons of each age group with the specified vision as determined by the Snellen test—4,862 native white school boys and 6,479 male white industrial workers in various localities in the United States.

		Percentage			Number	of persons.	
Age (years).	Normal in both eyes (1% or better).	12 or 33 in in one eye and 43 or better in other.	to or less in one or both eyes.	Total exam- ined.	Normal in both eyes (3% or better).	4% or 2% in in one eye and 4% or better in other.	†* or less in one or both eyes.
School children:							
6	57. 1	38. 5	4.4	205	117	79	5
7	60. 2	34. 1	5, 7	492	296	168	25
8	61. 2	35. 4	3.4	. 590	361	209	25
9	62. 4	32.8	4.8	631	394	207	36
10	65, 3	26. 5	8.2	683	446	181	54
11	65, 5	28.5	6.0	568	372	162	34
12	71. 3	22.3	6.4	533	380	119	34
13	68. 5	23. 2	8.3	444	304	103	37
14	72.6	21, 2	6.2	339	246	72	21
15	66. 3	24.9	8.8	193	128	48	17
16	70.8	18.8	10.4	96	68	18	16
17 and over	72.7	20, 5	6.8	88	64	18	6
Industrial workers:							
Under 20	77. 2	13.8	9.0	356	275	49	32
20 to 24	67. 7	22.7	9.6	896	607	203	86
25 to 29	61. 3	27. 3	11.4	1, 137	697	310	130
30 to 34	60. 1	27.8	12.1	1,078	648	300	130
35 to 39	54.8	29.4	15, 7	1,023	561	301	161
40 to 41	49. 5	. 35, 5	15.0	715	354	254	. 107
45 to 49	34.6	40.2	25. 2	572	198	230	144
50 to 54	22.6	38.1	39. 3	341	77	130	134
55 to 59	17. 9	30. 1	52.0	196	35	59	102
60 and over	5, 5	26, 7	67. 9	165	9	44	112

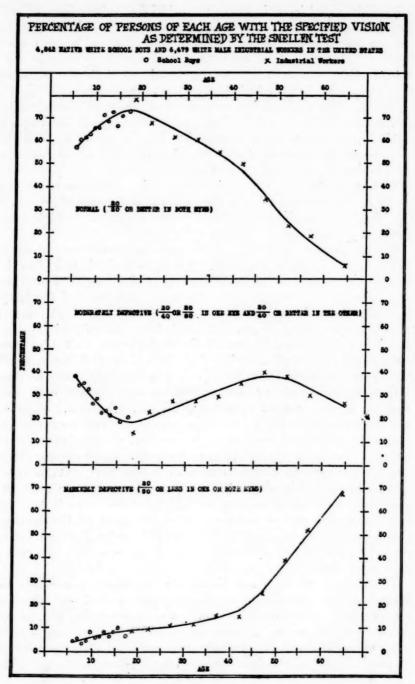


Fig. 1.

It will be noted from the upper part of Figure 1 that a greater percentage of boys have normal vision in both eyes (29 or better) at the end (16 and 17 years) than at the beginning of school life (6 years). However, after the age of about 18 or 19 years the percentage with normal vision in both eyes gradually declines until the forties, when there is apparently a marked acceleration of the decline.

The fact that the largest percentage of persons with normal vision occurs from 18 to 19 years of age rather than among the younger children may at first seem strange, but it is in agreement with the anatomical development of the eyes of man, which is not complete

until about the twentieth year of age.2

Turning to the class with vision of $\frac{20}{50}$ or less in one or both eyes, shown in the bottom section of Figure 1, the percentage of persons in this class rises continuously after 6 years of age, particularly after

about 45 years of age.

The percentage of persons with moderately defective vision is shown in the center of Figure 1. During school life this class decreases with age, some apparently going to the normal vision class and some to the markedly defective class, since both of the latter groups increase during school life. From about 20 to 50 years of age the percentage of persons with moderately defective vision rises. The interpretation would seem to be that persons do not go from good to poor vision at once, but that there is a period during which their vision is moderately defective before they get into the class with markedly defective vision. However, after the age of 50 years both the normal and the moderately defective classes are declining and the markedly defective class is, consequently, rapidly increasing.

During school life, from 60 to 70 per cent of the children have normal vision in both eyes, and up to about 40 years of age more than 50 per cent of persons have normal vision in both eyes. On the other hand, not more than about 15 per cent of persons have markedly defective vision before 40 years of age, but from 20 to 40 per cent have moderately defective vision. After the age of 40, the situation changes rather rapidly, and by 65 years only about 5 per cent have normal vision in both eyes and about 70 per cent have markedly

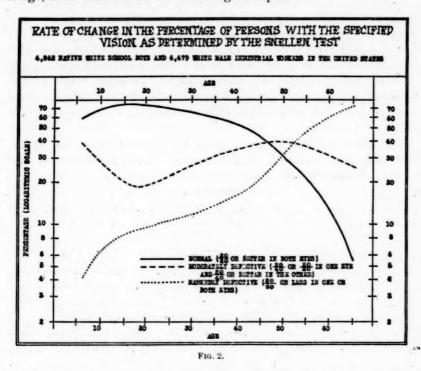
defective vision.

In Figure 1 the data are plotted on coordinate paper and the heights of the ordinates from the base line at different ages are comparable. In Figure 2 the data (lines representing the general trend) are plotted on a semilogarithmic scale, and on such a scale an equal distance vertically represents an equal percentage increase or decrease rather than an equal absolute change. The

² Arboreal Life and the Evolution of the Human Eye. By E. Treacher Collins. Lea and Febiger, Philadelphia and New York, 1922. P. 80. See also article, On the Degree of Association between Reaction Times in the Case of Different Senses. By Y. Koga and G. M. Morant. Biometrika, Vol. XV, pts. 3 and 4, December, 1923. (See particularly tables and charts on acuity of vision by age, pp. 351-353.)

steeper the line the more rapid the rate of change. The rate of increase or decrease therefore can be judged from the steepness of the curve.

It has already been noted that the percentage of persons with vision $\frac{20}{50}$ or less in one or both eyes increases during school life. From Figure 2 it may be noted that the rate of increase is more rapid during school life than in early industrial life. The increase continues after school life, but the rate of increase is not so rapid until about 45 years of age, after which time the rise is again rapid.



The more rapid increase in the percentage of persons with markedly defective vision during school ages than at the early ages of industrial life is again in agreement with the study of E. Treacher Collins, who states regarding the development of the eye:

If while this developmental process, which lasts up to the twentieth year, is still proceeding, man's vision becomes unduly restricted to use at short ranges, then * * * adaptation of structure to function tends to take place, the vitreous chambers become deeper than normal and myopia is developed.³

The actual increase in the percentage of persons with normal vision in both eyes is much greater during school life than the actual increase in the percentage of persons with markedly defective vision. But it may be seen from Figure 2 that the *rate* of increase with age

⁸ Op. cit., p. 80.

is not so great for the class with normal vision in both eyes as that for the class with markedly defective vision.

The decrease in the percentage of adults with normal vision in both eyes is moderate until about 45 years of age, after which time, as is indicated particularly in Figure 2, the rate of decrease is very much accelerated.⁴

SUMMARY.

The results of Snellen vision tests of 4,862 native white school boys and 6,479 male white industrial workers were tabulated to show the age incidence throughout life of good and of poor vision.

The percentage of persons with normal vision ($\frac{20}{20}$ or better in both eyes) increased with age up to 18 or 19 years, after which it declined. After about 45 years of age the rate of decline was much more rapid.

The percentage of persons with markedly defective vision ($\frac{20}{50}$ or less in one or both eyes) increased steadily after 6 years of age. The rate of increase was more rapid during school ages than in the early ages of industrial life.

The percentage of persons with moderately defective vision declined during school ages, then increased from 20 to 50 years of age, and then declined again.

Appendix.

Table 2.—Number of persons examined and the number with each specified vision as determined by the Snellen test—4,862 native white school boys and 6,479 white male industrial workers in the United States.

Age (years).	Total.	better in one or both eyes.	## or better in one eye and ## or ## in other.	is or in in both eyes.	better in one eye and and and in or	## or ## in one eye and ## or ## in other.	1° or 4° in both eyes.	†% or better in one eye and †% or less in other.	30 or 42 in one eye and 40 or less in other.	1; or †; in one eye and †; or less in other.	less in both eyes.
School children:											
6	205	117	27	52	3 2 2	3	1				2
7	492	296	56	112	2	8 8 7	9	2	4	3	
8	590	361	65	144	2	8	4	1	3		
9	631	394	68 73	139	5 5 3 8 2 3 2		11	5	2 5	1	1
10	683	446		108	8	12	15	3	5	. 5	
11	568 533	372 380	47 47	115	3	10	6 7 2 3	8	3	3	
***		304	36	72 67	3			3	3	3 2	- 3
	444 339	246	34	38	8	8 5	2	3	5 5	2	
*************	193	128	21	27	2	4	1	1	1	2	-
16	96	68	11	7	3		i	1	3		
17 and over	88	64	12	6	ĩ	*****		4 2	.3		
Industrial workers:	co	04	12						*****		
Under 20	356	275	25	24	5	6	4	3	5	4	2
20 to 24	896	607	82	121	6	13	12	13	18	5	11
25 to 29	1, 137	697	144	166	13	27	20	30	8	10	99
30 to 34	1, 078	648	117	183	11	29	25	17	12	13	25
35 to 39	1, 023	561	129	172	21	34	23	25	22	9	27
40 to 44	715	354	92	163	9	27	20	12	16	3	20
45 to 49	572	198	75	155	6	29	37	14	19	13	20
50 to 54	341	77	22	108	3	26	31	4	10	18	42
55 to 59	196	35	9	50	1	19	25	3	11	16	28
60 and over	165	9	7	37	1	14	28	1	10	19	39

⁴ Attention may be called to Fig. 7 (p. 56) in Public Health Bulletin 140. It is to be noted that this curve shows the percentage normal in one eye or both eyes, whereas the graphs in the present article show the percentage normal in both eyes. The Koga and Morant article confirms our results in so far as the accelerated decline after 45 years of age is concerned, as well as other periods of life.

OIL POLLUTION AT BATHING BEACHES.

Prepared by a committee consisting of F. W. Lane, Bureau of Mines, Chairman; A. D. Bauer, Bureau of Mines; H. F. Fisher, American Petroleum Institute; and P. H. Harding, American Steamship Owners' Association.

In view of the large number of complaints coming from the beach interests, and the importance of bathing beaches as a factor influencing public health, the Bureau of Mines, in cooperation with the American Petroleum Institute and the American Steamship Owners' Association, has made an examination of conditions as regards petroleum oil pollution along the coasts of the United States. This investigation was carried out during the period November 1, 1922, to February 1, 1923.

The data presented in this paper have been selected from a much larger mass of material. With the exception of one or two localities no attempt has been made to give a detailed picture of the situation. The aim has been to present a brief general account of oil pollution conditions at bathing beaches along the coasts of the United States. Care has been taken to give only data from sources of the greatest reliability. On account of the great number of complaints that were heard from the New Jersey beaches, a special effort was made to obtain authentic information regarding that part of the coast. The detailed data relative to the New Jersey coast is presented with the permission of the United States Coast Guard.

Where it was impossible to obtain data directly from persons believed to be well informed, letters were written requesting information regarding conditions in various localities from which trouble had been reported. The response to these requests was often meager and, in some cases, no replies were received.

In most localities, contact was made also with representatives of chambers of commerce, health officers, and recreation commissions, who are directly interested in beaches as a vital factor in the public health.

BOSTON AND VICINITY.

At Boston a representative of the chamber of commerce stated that no complaints have been received relative to beach conditions. However, the city health commissioner reported as follows:

* * Several complaints were also had from the bathing beaches, and, upon investigation, it was found that, at times, it was impossible to go in bathing without being entirely covered with oil which was very difficult to remove.

It came to our attention at that time that the same conditions existed at the beaches at Winthrop and Nantasket.

The health commissioner of the city of Quincy, Mass., wrote as follows:

Public opinion is intensely aroused in this vicinity over this oil pollution. It affects many thousands of people who have been in the habit of bathing each day in summer in these waters. * *

The following quotation is from the letter of the deputy commissioner, park department, Boston:

* * From personal observation, I have noticed oil at Savin Hill Beach, Dorchester, and Wood Island Park, East Boston; L Street Baths in South Boston have never been polluted to any great extent; Freeport Street very little; but the conditions in Charlestown at Dewey Beach and at North End Beach, Boston, are very bad.

PROVIDENCE, R. I., AND BRIDGEPORT, CONN.

A sanitary engineer of the board of purification of waters, Providence, R. I., stated that, while formerly the beaches had a good deal of trouble, no serious complaints had been received during the preceding year, either from beach interests or from sporting men. The following extract is taken from the annual report of the board for the fiscal year ending December 31, 1922:

Oil pollution of ocean beaches.—The board has made various inquiries relative to the extent of oil pollution of the ocean beaches of Rhode Island. It appears that occasionally there are patches of oil washed from the ocean onto the beaches. These patches of oil do not make their appearance until it is practically impossible for the board, with their present facilities, to ascertain the source of this pollution.

The conditions of the beaches at Bridgeport would seem to be somewhat less satisfactory, as the harbor master stated that many complaints had come from the beaches in the vicinity of Black Rock Harbor.

NEW YORK, N. Y., AND VICINITY.

The officer in charge of Coast Guard Station No. 92, Rockaway Beach, Long Island, made the following comments:

Oil pollution in this district was worse in the summer of 1922 than in the previous year, and the conditions always seem worse in the summer than in the winter.

He has seen large patches of oil floating on the surface of the water, but the oil usually comes into the beach broken up into small particles about the size of a half dollar. The beach does not become stained throughout its entire length, but the pollution is scattered, depending upon where the small particles of oil are washed ashore. During the summer of 1922 there were several days when it was impossible to go in bathing on account of the oil. The part of the beach near One Hundred and Sixth Street was reported to be in bad condition last summer on account of oil, but when inspected by a member of the committee it appeared clean and free from oil. The committee was informed that bathers must exercise care in walking and sitting on the beach in order to avoid tarry spots which may be covered with a slight layer of sand. The officer also said that the same conditions may be found all around the island and at Coney

Island. A member of the committee walked along the beach at several places and was unable to see any oil pollution; however, some driftwood was noticed which was coated with tarry residue. A few piers were examined but no oily coating was evident.

Mr. E. F. Moran, appointed by the supervisor of New York Harbor as chairman of a committee to investigate the subject of oil pollution in New York Harbor, reported that during 1921 the condition of the water of New York Harbor, as a result of oil pollution, had become serious. Bathing was greatly restricted at some beaches and in other cases was entirely abandoned owing to the presence of oil.

On November 10, 1922, the committee wrote to the general manager, Brighton Beach Baths, Brighton Beach, Brooklyn, who, it was understood, was chairman of a committee representing various beach associations in that vincinity. No reply was received, and a second letter was written requesting information relative to beach conditions. No reply was received to the second inquiry.

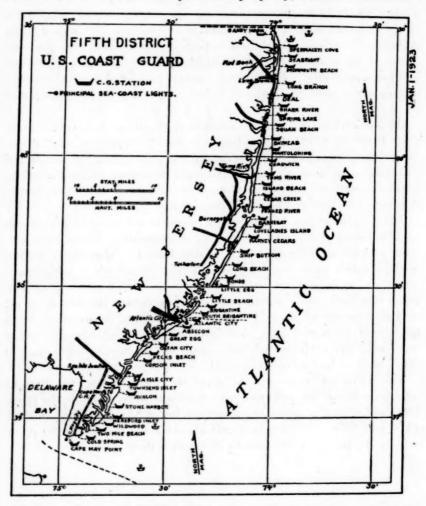
The superintendent of the Staten Island Beach Land Improvement Co. furnished some very interesting information relative to conditions prevailing at South Beach, Staten Island. Apparently, he has made a much more careful study of this subject than most beach operators, as he was the only operator interviewed who was able to give exact dates when conditions at his beach were intolerable owing to the presence of oil. He has been collecting information for a number of years and made that information available for the use of the committee. He stated that conditions at South Beach had at times been so bad as to threaten the loss of the whole investment.

The following memorandum gives the dates during the bathing season on which the pollution was so serious as to preclude the possibility of bathing at one of the resorts on lower New York Bay in 1916, 1918, and 1919. These figures indicate the great increase in oil pollution at the beach in question for the period dealt with.

1916	1918	1919
July-1 day.	July—3 days. Aug.—4 days. Sept.—2 days.	July-10 days. Aug11 days. Sept2 days.

The number of bathing days in 1919 were stated to be 100, so that the number of days of oil was 23 per cent of the bathing season. However, the actual bathing season in this locality is usually considered to consist of July and August, or 62 days. On this basis the number of days of oil pollution at this beach in 1919 would represent 37 per cent of the bathing season.

The operator of this resort kept a record for each day from January 3, 1920, to June 11, 1920, of the direction of the wind, flow of tide at the time of observation, presence and extent of oil on the water and on the beach in the vicinity of his property, and the arrivals of



tankers in the port of New York. It was found that oil usually came on the beach with a southerly or southeasterly wind.

A summary of this record is given in the following table:

	January 3–31.	February.	March.	April.	May.	June 1-11.	Total period (160 days).
Number of days oil appeared on the water or on the beach Number of tankers arriving	9 30	13 21	8 16	9 19	12 16	3	54 102

The investigators also interviewed an official of the marine division of the police department of Staten Island, with special reference to conditions prevailing along the southern shore of the island. This official stated that he had received no complaints from this source, and did not believe there was any appreciable quantity of oil there.

NEW JERSEY.

Many persons were written to regarding conditions along the New Jersey coast. On the whole, the response to these requests for information was disappointing. Such replies as were received were, in general, very meager and unsatisfactory.

A letter from Atlantic City contained the following:

* * I beg to advise you that in the summer of 1920 a grounded tanker pumped 10,000 gallons of oil overboard, polluting our beach and causing the city an expense of \$1,400 to clean up the beach and, in addition, caused a great deal of annoyance and actual loss to the bathing houses and to the hotels and cottages by having the tar tracked into the buildings. Since that time we have had very little trouble.

This last summer there was at times a recurrence of this trouble, but not nearly as bad as it was in the summer of 1920.

In order to obtain a better idea of conditions along the New Jersey coast, the committee wrote to the superintendent of the Fifth District, United States Coast Guard, Asbury Park, requesting any information relative to the effect of petroleum oil on the beaches. This official referred the matter to the officers in charge of the Coast Guard stations, who are directly on the beach at all times and who observe closely all occurrences within the patrol limits of their respective stations. The replies of each of these officers, thirty-eight in number, were placed at the disposal of the committee, and the results are given in the accompanying table. The map shows the distribution of the stations along the New Jersey coast.

Tabulation of replies received from Coast Guard Stations along the Coast of New Jersey (5th district).

	Bathing.	Greatly decreased Bathing spoiled	with. Prevents bathing at times.	Bad on date mentioned. Prevented bathing Clothes spoiled. Interferes greatly Ruins clothes.	Interfered with	Clothes ruined.	Shoes covered with oil in patrolling neach.	s bathing Do.	Complaints from bath- ers.
•	Be		with. Prevents	1 1 1			do	Prevents	Compla
Injury to fish, fowl, bathing.	Fowl.	Wild fow! killed in large		Ducks covered with oil and unable to fly.	Some ducks found covered with oil and unable to fly.	Wild ducks covered with oil and unable to	ny.	Prevents bathing.	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
In	Fish.	No fishing at Sandy Hook. Menhaden Killed in large num- bers in spring.			Some have been picked up dead.	-	2 fisheries failed in this district—fish did not run along shore on account of oil.	Fishing in Barnegat Bay almost extinct.	9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9
Dates	Yaveb.	Always after easterly winds. Winter and summer for last 4 or 5 years.	In summer with inland breeze.	uly, 1920-21 wind blows	For some years past	washed ashore during northeast and east wind. Past few years. Oil on shore after northeast	Wind. Especially summer 1922. Oil on shore after eastward wind.	After easterly storms After east winds June, July, and August.	1922. After northeast or east wind.
Extent of oil	pollution.	No record Beach practically oil-coated. Bad	Bad at times	Very baddodo.	do	Bad		do Bad at times— Barnegat Bay almost covered. Bad	
Exis-	oil pol- lution.	Yes Yes	Yes	Yes	Yes	Yes	-	Yes	
	Name of station.	Sandy HookSpermacett Cove Monmouth Beach	Deal	Spring Lake Squan Beach	Mantoloking	Toms River	Island Beach	Cedar Creek Forked River	Loveladies Island

	Clothing ruined.	Do.	Do.	1920, tanker Cabrille. 1917, oil tanker sunk off Delaware Capes. Yachtsmen complain. Rulning household		. Clothing ruined.	Ruins household fur- nishings.					Pollution usually in small lumps; hard when cold; soft and sticky when warm.
ор	Prevents bathing	Prevents bathing	do	Prevents bathing	•	do		do	Harmful to bathing	Harmful to bathing	Did not prevent bath- ing.	Harmful to bathing
ор-	Wild fowl covered with oil; unable to ffy; die.			. Wild fow! killed by oil Prevents bathing.	Wild fowl covered with oil; unable to ffy.	Ducks and gulls found dead, covered with oil.		Wild fowl killed by oil	. Wild fowl covered with oil and unable to ffy.			wild fowl covered with oil and unable to fly; die.
Not offeeted	**************************************	电电电电电器 医电流电影 医电影电影 医电影医影片 医电压	* * * * * * * * * * * * * * * * * * *	Affected	ор	фо			Fishing ruined			
Summer 1922	Past 6 years.	July, 1918-1920	No record for number of times oil came ashore except July, 1920.	July and August, 1922	July, 1922. Summers for past six years. Af-	July and August of past 3 years. After south	April to October. Since 1918. July, August, and Sep-	tember, 1920. Summer, 1921. Summer, 1922	Several occasions in \$921 and 1922. July, 1921	Summers, 1921–22. Summer, 1922	No record	Since 1918.
Moderate	Bad	Bad on two oc-	N	baddo	**************************************	do	(Bad in	Slight in	Bad.	Bad. Slight	No record Slight	No record
Yes		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	88
Long Beach	Brigantine	Atlantic City	Absecon	Ocean City	Pecks Beach	Corson Inlet	Sea Isle City	Townsend Inlet	Avalon	Hereford Inlet	Two Mine Beach.	Cape May Point

BALTIMORE, MD., AND VICINITY.

It was reported by a representative of a steamship company, that there was no bathing in the immediate vicinity of Baltimore,

owing to industrial development.

It was stated that bathing was formerly enjoyed in Chesapeake Bay near the city of Baltimore, but during recent years, on account of oil pollution, bathing has been restricted. It is said to be necessary to go about 20 miles below the city before bathing can be enjoyed without the discomforts of oil pollution.

NORFOLK, VA., AND VICINITY.

The health commissioner of Norfolk, Va., reports as follows:

* * we have had a great number of complaints from the bathing beaches, Virginia Beach, Ocean View, Ocean Park, Chesapeake Beach, Willoughby Beach, and other beaches, against the large quantities of oil in the waters of these places. As a matter of fact, on a number of occasions it has been impossible to use these beaches for bathing purposes. I know of this from my own personal experience.

To summarize what I have said, we are almost constantly in receipt of complaints from this source. Sorry I can not give you more information in detail \ast *

The committee interviewed several municipal authorities, and it was reported that oil had caused trouble at several of the beaches. The greatest number of complaints had been received from Virginia Beach, and it is said that when a northeasterly wind is blowing, oil, which may be dumped beyond the three-mile limit, is washed in on the beach. During the summer of 1922 the trouble from oil pollution on the beaches was less than in the preceding years.

The president of an amusement company who operates a well-known beach resort was interviewed. The beach is located between Old Point Comfort and Cape Henry. He said that, during the summer of 1922, the beach was bothered very little by oil, and that the condition was steadily improving. The summer of 1921 was the worst experienced by the beach in regard to oil pollution. The shower baths were equipped with kerosene for cleaning oil from the bodies of the bathers.

The committee inspected Virginia Beach, which is about 8 miles south of Cape Henry and 20 miles east of Norfolk. This beach was examined for a distance of about 1 mile, but no evidence of free oil was observed on the sand or in the water. Some scattered pieces of driftwood covered with oil residue were observed and examined. As the resort was closed for the winter season, it was impracticable to interview anyone regarding troubles experienced there during the summer of 1922.

CHARLESTON, S. C., SAVANNAH, GA., AND JACKSONVILLE, FLA.

Municipal authorities were interviewed at these places and it was stated that no serious complaints had recently been reported.

PALM BEACH, FLA.

At Palm Beach the investigators interviewed the city manager, and the proprietor of a bath. According to these gentlemen, bathers were bothered by oil both on the surface of the water and on the bottom. In the fall of 1922, the condition was bad, and in the first part of January, 1923, there were quantities of oil on the beach. There appeared to be no improvement in the condition from previous years. Resort proprietors and the city manager had written to all the oil companies requesting them not to pump out ballast water or clean oil tanks between St. Augustine and Key West. Later the city manager wrote:

* * This condition [oil on the beach] has been and is very bad at times. It is almost impossible to bathe in the ocean at times, on account of this heavy oil floating on the water, which sticks to the clothing or skin wherever it comes in contact with it. Also, the use of the beach is very much destroyed by the heavy oil washing up on the beach.

An inspection of the beach by the committee for a distance of about 2 miles showed it to be clean and free from oil except for a few scattered small pieces of asphaltic residue, and a small area south of the Breakers Hotel and casino, where, for a distance of about one-quarter of a mile, a considerable quantity of asphaltic residue was scattered along at the high-water mark. The pieces ranged in size from cakes 1 inch in diameter to cakes about 2 feet long and 18 inches wide and about 1 inch thick. The residue was dry and hardened and could be handled without soiling the hands unless crushed or broken. It could be cleaned from the beach very readily, but no attempt to do this was being made by the casino owners.

MIAMI BEACH, FLA.

At Miami Beach the committee interviewed the secretary of the chamber of commerce, a former councilman, the city engineer, and two casino proprietors. These persons reported that, at times, the oil pollution conditions on the beach were bad and very harmful to the business of the casinos. The chamber of commerce was taking a very active interest in this subject and was endeavoring to stop the trouble. The proprietors of the resorts displayed before a meeting of the chamber of commerce an exhibit of towels and bathing suits ruined by oil and oily refuse.

The resort owners were in the habit of cleaning the beach in front of their casinos and of burying the oily refuse in the sand.

An inspection of the beach showed it to be clean and free from oil, except for a few small pieces of asphaltic residue.

TAMPA, FLA.

The committee interviewed the harbormaster, who had visited the beaches in that vicinity and inquired of the resort owners whether they had been bothered by oil. It was stated that no complaints had been made. The mayor, commissioner, and the secretary of the chamber of commerce were also interviewed.

ST. PETERSBURG, FLA., AND PASS-A-GRILLE, FLA.

The beaches at these places were inspected by the committee and found to be in a very clean condition and free from oil.

PENSACOLA, FLA., AND MOBILE, ALA.

Municipal authorities informed the committee that complaints had been made by the bathing beach interests, but the apparent lack of definite information on the part of those interviewed left the committee in some doubt regarding the seriousness of oil pollution at bathing beaches.

Among the persons consulted at Pensacola were the deputy harbormaster, the secretary of the chamber of commerce, and a city commissioner. At Mobile the committee interviewed, among others, a city commissioner and the harbormaster.

NEW ORLEANS, LA.

There had been no serious complaints from bathing beaches in this vicinity. In this connection the committee interviewed the assistant general manager, board of port commissioners, the superintendent of docks, and the captain of the harbor patrol.

HOUSTON, TEX.

There are no beaches in the immediate vicinity of Houston, but the committee was informed that, at the head of Galveston Bay, which is about 25 miles from the city, considerable trouble had been experienced from oil on the beaches. In connection with this subject the committee interviewed the assistant director of the port, whose jurisdiction extends along the ship channel from Houston to Morgan's Point.

GALVESTON, TEX.

An official of the fire department indicated that conditions on the beaches on the Gulf side were extremely bad in the summer of 1921. The summer of 1922 showed some improvement.

An officer of the Galveston Commercial Association indicated that conditions were extremely bad in 1921, but had improved somewhat since then. At that time, large patches of free oil were visible on the waves breaking on the shore. Even during the summer of 1922, it was often necessary to have cans of gasoline available for the use of bathers.

A member of the committee made an inspection of the sea wall for a distance of several miles and found that large patches of oil had been deposited on its entire length. An inspection of the beach itself showed seaweed and shells freshly coated with oil, and small globules of oily material were found on the sand, ranging from pieces one-eighth of an inch in diameter to large patches several inches in diameter. It was impossible to walk any distance on the beach without picking up a heavy coating of oil on the shoes. Even these bad conditions were stated to be better than usual.

An owner of one bathhouse was said to have suffered a loss in one season of about \$2,000 in towels and suits alone, in addition to loss in trade. It was stated that a large hotel, representing an investment of over \$1,000,000, which depends for its success upon the summer trade, had been seriously injured by oil pollution. Every effort was made, but without success, to interview the manager of this hotel, who was understood also to be the proprietor of the bathhouse above referred to.

PISMO BEACH, CALIF.1

Formerly there was a good deal of complaint from clam-bed owners on account of pollution which was apparently occasioned by reason of ships pumping bilge water offshore. This has been discontinued and no pollution is to be found at the present time.

REDONDO BEACH, VENICE, AND OCEAN PARK, CALIF.

Conditions were bad at these localities, with many complaints from the bathing beaches. Most of the oil pollution found was due to the unpreventable oil seepages at sea about 2 miles off Redondo Beach.

LONG BEACH, CALIF.

Long Beach has a very serious problem occasioned by oil escaping from producing wells on Signal Hill. Oil has often found its way into the storm sewers and has been carried to the bay, where it floats upon the water of the bathing beaches.

¹ Notes on Pacific coast beaches by C. P. Bowie and J. S. Desmond, of the Bureau of Mines.

CONCLUSIONS.

In general, pollution by oil at beaches along the coasts of the United States has presented a very serious problem during the past few years, although present conditions represent a great improvement over those that prevailed a few years ago. Unfortunately, most beach operators have not kept accurate records of the dates and circumstances under which oil appeared on their beaches. Accordingly, it is impossible to estimate accurately the extent to which the public has been deprived of the use of the beaches, or to what degree the beach operators have suffered on account of the presence of oil. Some comprehensive program, involving definite measures, undoubtedly is necessary reasonably to insure that the beaches shall be in proper condition for the public use.

FEDERAL OIL POLLUTION ACT.

Under an act of Congress approved June 7, 1924, the discharge of oil from vessels into the coastal navigable waters of the United States is regulated. The act authorizes the Secretary of War to prescribe regulations governing the discharge of oil from vessels, and makes the violation of section 3 of the act or any regulation prescribed in pursuance thereof a misdemeanor. A vessel from which oil is unlawfully discharged is made liable for the pecuniary penalty specified, and clearance of such vessel may be withheld and the penalty, constituting a lien on the vessel, recovered in proceedings by libel in rem. Suspension or revocation of licenses issued to officers of vessels found violating the act is also provided for. The Secretary of War is directed to make an investigation concerning the pollution of navigable waters and nonnavigable waters connecting with navigable waters, and to report the results of his investigation to Congress, together with such recommendations for remedial legislation as he deems advisable. The act follows:

[Public-No. 238-68th Congress.]

An Act To protect navigation from obstruction and injury by preventing the discharge of oil into the coastal navigable waters of the United States.

Be it enacted by the Senate and House of Representatives of the United States of America in Congress assembled, That this act may be cited as the "Oil pollution act, 1924."

Sec. 2. When used in this act, unless the context otherwise requires-

(a) The term "oil" means oil of any kind or in any form, including fuel oil, oil sludge, and oil refuse;

(b) The term "person" means an individual, partnership, corporation, or association; any owner, master, officer or employee of a vessel; and any officer, agent, or employee of the United States; (c) The term "coastal navigable waters of the United States" means all portions of the sea within the territorial jurisdiction of the United States, and all inland waters navigable in fact in which the tide ebbs and flows;

(d) The term "Secretary" means the Secretary of War.

Sec. 3. That, except in case of emergency imperiling life or property, or unavoidable accident, collision, or stranding, and except as otherwise permitted by regulations prescribed by the Secretary as hereinafter authorized, it shall be unlawful for any person to discharge, or suffer, or permit the discharge of oil by any method, means, or manner into or upon the coastal navigable waters of the United States from any vessel using oil as fuel for the generation of propulsion power, or any vessel carrying or having oil thereon in excess of that necessary for its lubricating requirements and such as may be required under the laws of the United States and the rules and regulations prescribed thereunder. The Secretary is authorized and empowered to prescribe regulations permitting the discharge of oil from vessels in such quantities, under such conditions, and at such times and places as in his opinion will not be deleterious to health or sea food, or a menace to navigation, or dangerous to persons or property engaged in commerce on such waters, and for the loading, handling, and unloading of oil.

Sec. 4. That any person who violates section 3 of this act, or any regulation prescribed in pursuance thereof, is guilty of a misdemeanor, and upon conviction shall be punished by a fine not exceeding \$2,500 nor less than \$500, or by imprisonment not exceeding one year nor less than thirty days, or by both such fine and imprisonment, for each offense. And any vessel (other than a vessel owned and operated by the United States) from which oil is discharged in violation of section 3 of this act, or any regulation prescribed in pursuance thereof, shall be liable for the pecuniary penalty specified in this section, and clearance of such vessel from a port of the United States may be withheld until the penalty is paid, and said penalty shall constitute a lien on such vessel which may be recovered in proceedings by libel in rem in the district court of the United States for any district within which the vessel may be.

Sec. 5. A board of local inspectors of vessels may, subject to the provisions of section 4450 of the Revised Statutes, and of the act entitled "An act to provide for appeals from decisions of local inspectors of vessels, and for other purposes," approved June 10, 1918, suspend or revoke a license issued by any such board to the master or other licensed officer of any vessel found violating the provisions of section 3 of this act.

Sec. 6. That no penalty, or the withholding of clearance, or the suspension or revocation of licenses, provided for herein, shall be enforced for any violation

of this act occurring within three months after its passage.

Sec. 7. That in the administration of this act the Secretary may make use of the organization, equipment, and agencies, including engineering, clerical, and other personnel, employed under his direction in the improvement of rivers and harbors and in the enforcement of existing laws for the preservation and protection of navigable waters. And for the better enforcement of the provisions of this act the officers and agents of the United States in charge of river and harbor improvements, and the assistant engineers and inspectors employed under them by authority of the Secretary, and officers of the Customs and Coast Guard Services of the United States, shall have power and authority and it shall be their duty to swear out process and to arrest and take into custody, with or without process, any person who may violate any of said provisions: Provided, That no person shall be arrested without process for a violation not committed in the presence of some one of the aforesaid officials: And provided further, That whenever any arrest is made under the provisions of this act the person so arrested shall be brought forthwith before a commissioner,

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judge, or court of the United States for examination of the offenses alleged against him; and such commissioner, judge, or court shall proceed in respect thereto as authorized by law in cases of crimes against the United States.

Sec. 8. That this act shall be in addition to the existing laws for the preservation and protection of navigable waters and shall not be construed as repealing,

modifying, or in any manner affecting the provisions of those laws.

Sec. 9. That the Secretary is authorized and directed to make such investigation as may be necessary to ascertain what polluting substances are being deposited into the navigable waters of the United States, or into nonnavigable waters connecting with navigable waters, to such an extent as to endanger or interfere with navigation or commerce upon such navigable waters or the fisheries therein; and with a view to ascertaining the sources of such pollutions and by what means they are deposited; and the Secretary shall report the results of his investigation to the Congress not later than two years after the passage of this act, together with such recommendations for remedial legislation as he deems advisable: *Provided*, That funds appropriated for examinations, surveys, and contingencies of rivers and harbors may be applied to paying the cost of this investigation, and, to adequately provide therefor, the additional sum of not to exceed \$50,000 is hereby authorized to be appropriated for examinations, surveys, and contingencies of rivers and harbors.

Approved, June 7, 1924.

ANTIPLAGUE ORDINANCE OF LOS ANGELES, CALIF.

The city of Los Angeles, Calif., has recently adopted an ordinance (No. 50282, approved November 21, 1924) which provides for the ratproofing of buildings, the trapping of rats, the prevention of entrance of rats from vessels, and the prevention of access by rats to food, garbage, refuse, etc. The ordinance reads as follows:

Section 1. It shall be unlawful for the owner, manager, or agent in charge of any building or premises, or any part thereof, between the hours of 9 o'clock a.m. and 5 o'clock p.m. of any day, to refuse admission to any officer, inspector, or other representative of the health department of the city of Los Angeles, when such officer, inspector, or other agent has announced his intention to enter said building or premises for the purpose of inspecting the same and ascertaining whether the provisions of this ordinance have been complied with by the

owner or occupant of said building or premises.

Sec. 2. All building and basement walls of all storerooms, warehouses, residences or other buildings within the city, all chicken yards or pens, chicken coops or houses, and all barns and stables, shall be so constructed or repaired as to prevent rats from being harbored underneath the same or within the walls thereof, and all food products or other products, goods, wares, and merchandise liable to attract or to become infested or infected with rats, whether kept for sale or for any other purpose, shall be so protected as to prevent rats from gaining access thereto or coming in contact therewith. All storerooms, warehouses, residences, or other buildings in said city shall be provided by the householder or his agent with one or more traps of a pattern approved by the commissioner, which traps shall be freshly baited at least twice each week by the householder or his agent, and shall be inspected daily by the householder or his agent, and any rat or rats caught therein shall be killed and delivered to the health department, or its duly authorized deputy, or killed and then destroyed by burning, and such trap or traps thoroughly smoked and reset and rebaited by said householder or his agent.

Sec. 3. All public and private docks and wharves in the city, wherever located, shall be so protected as to prevent rats from gaining entrance to such docks or wharves, at either high or low tide, from vessels anchored or moored alongside of such docks or wharves, or from other sources, and all food products stored in docks or wharves shall be so kept and stored as to prevent rats from gaining access thereto or coming in contact therewith. All docks and wharves shall be provided with two or more traps of a pattern approved by the health commissioner; traps shall be freshly baited at least twice each week, and shall be inspected daily, and all rats caught therein shall be killed and delivered to the health department, or killed and then destroyed by burning, and such trap or traps shall be thoroughly smoked and reset and rebaited.

Sec. 4. All slaughterhouses of every kind and nature, and wherever located in the city, shall be so protected as to prevent rats from gaining access to the building or buildings thereof, and all holes and openings in the building or basement walls shall be thoroughly stopped with cement or other material approved by the health commissioner, and all food products stored in slaughterhouses shall

be so kept as to prevent rats from coming in contact therewith.

All slaughterhouses shall have at least two traps, or as many more traps as may be required by the health commissioner, of pattern approved by said commissioner, which traps shall be baited with fresh bait at least twice a week, and such traps shall be inspected daily by the owners, lessees, or agents thereof, and all rats caught therein shall be killed and delivered to the health department, or killed and then destroyed by burning, and the trap or traps thoroughly smoked and reset and rebaited by said owners, lessees, or their agents.

Sec. 5. All buildings, places, and premises whatsoever in the city shall at once be placed, and shall continuously be kept by the owner or the occupant thereof, in

a clean and sanitary condition, and free from rats.

Sec. 6. It shall be unlawful for any person, firm, or corporation to have or permit upon any premises owned, occupied, or controlled by him or it, any nuisance detrimental to health, or any accumulation of filth, garbage, decaying animal or vegetable matter, or any animal or human excrement; and it shall be the duty of the health commissioner of the city of Los Angeles to cause any such person, firm, or corporation to be notified to abolish, abate, and remove such nuisance, and in case such person, firm, or corporation shall fail, neglect, or refuse to remove the same within one day after receiving such notice, such nuisance may be removed and abated under and by order of the health commissioner, and the person, firm, or corporation whose duty it was to abate or remove such nuisance, in addition to incurring penalties in this ordinance provided, shall become indebted to said city for the costs and charges incurred by said city by reason of the existence and removal of such nuisance.

Sec. 7. It shall be unlawful for any person, firm, or corporation to dump or place upon any land, or in any water or waterway, within said city, any dead animal, butchers' offal, fish or parts of fish, or any waste vegetable or animal

matter whatever.

Sec. 8. It shall be unlawful for any person, firm, or corporation whether the owner, lessee, occupant, or agent of any premises to keep or permit to be kept in any building, area way, or upon any premises, or in any alley, street, or public place adjacent to any premises, any waste animal or vegetable matter, dead animals, butchers' offal, fish or parts of fish, swill, or any refuse matter from any restaurant, eating place, residence, place of business, or other building, unless the same be collected and kept in a tightly covered or closed metal can or vessel.

Sec. 9. No rubbish, waste, or manure shall be placed, left, dumped, or permitted to accumulate or remain in any building, place, or premises in said city so that the same shall or may afford food or a harboring or breeding place for rats.

Sec. 10. Any person, firm, or corporation violating or failing to comply with any of the provisions of this ordinance shall be deemed guilty of a misdemeanor, and upon conviction thereof shall be punished by a fine of not to exceed \$500, or by imprisonment in the city jail for a period of not to exceed six months, or by both such fine and imprisonment. Each such person, firm, or corporation shall be deemed guilty of a separate offense for each day during any portion of which any violation of any of the provisions of this ordinance is continued, committed, or permitted, and shall be punishable therefor as herein provided.

PRINCIPAL CAUSES OF DEATH IN THE UNITED STATES, 1923.

The Department of Commerce announces that 1,193,017 deaths occurred in 1923 within the death registration area of continental United States, representing a death rate of 12.3 per 1,000 population as compared with a rate of 11.8 in 1922.

The death registration area (exclusive of the Territory of Hawaii) in 1923 comprised 38 States, the District of Columbia, and 14 cities in nonregistration States, with a total estimated population on July 1 of 96,986,371, or 87.6 per cent of the estimated population of the United States.

The increase in the rates from influenza, from 31.4 per 100,000 population in 1922 to 44.7 in 1923, and from pneumonia (all forms) from 102.1 per 100,000 population in 1922 to 109 in 1923, accounts for nearly half the increase in the rate from all causes. Some of the other causes for which the rates increased are diseases of the heart, measles, cerebral hemorrhage, whooping cough, cancer, automobile accidents, nephritis, railroad accidents, and accidental falls.

Decreases appear in the death rates from tuberculosis (all forms), diphtheria, malaria, and typhoid and paratyphoid fever.

The following table shows for the death registration area in continental United States in 1922 and 1923 the total number of deaths and the death rate from leading causes.

	Deaths in	the registrat of Hawa		rclusive
Cause of death.	Nun	iber.	Rate per popula	
	1923	1922	1923	1922
All causes 1	1, 193, 017	1, 101, 863	1, 230. 1	1, 181. 7
Diseases of the heart. Pneumonia (all forms) Tuberculosis (all forms). Of the respiratory system Of the meninges, central nervous system Other forms. Center forms. Center and other malignant tumors. Cancer and other malignant tumors. Congenital malformations and diseases of early infancy.	170, 033 105, 680 90, 732 79, 534 4, 010 7, 188 87, 707 87, 378 86, 754 75, 626	154, 495 95, 164 90, 452 79, 104 4, 113 7, 235 80, 191 82, 518 80, 938 72, 940	175. 3 109. 0 93. 6 82. 0 4. 1 7. 4 90. 4 90. 1 89. 4 78. 0	165. 7 102. 1 97. 0 84. 8 4. 4 7. 8 86. 0 88. 5 86. 8

¹ Exclusive of stillbirths.

	Deaths in	the registrat of Hawa		xclusive
Cause of death.	Num	ber.	Rate per 100,000 population.	
	1923 .	1922	1923	1922
Accidental and unspecified external causes (total)	74, 131	65, 263	76.4	70.
Automobile accidents	14, 411	11, 666	14.9	12.
Accidental falls.	12, 378	11, 237	12.8	12.
Railroad accidents	7, 100	5, 687	7.3	6.
Burns (conflagration excepted)	6, 503	5, 962	6.7	6.
	5, 976	5, 988	6.2	6.
Accidental drowning				
Accidental shooting	2, 578	2, 514	2.7	2.
Machinery accidents	2, 224	1,827	2.3	2.
Mine accidents	2, 207	1, 737	2.3	1.
Injuries by vehicles other than railroad cars, street cars,				-
and automobiles 2	1,806	1,839	1.9	2.
Street-car accidents	1, 757	1, 491	1.8	1.
Excessive heat (burns excepted)	529	417	. 5	
Other external causes	16, 662	14, 898	17. 2	16.
Influenza	43, 370	29, 277	44.7	31.
Diarrhea and enteritis (total)	38, 703	36, 873	39. 9	39.
Diarrhea and enteritis (under 2 years)	31, 444	30, 308	32.4	32.
Diarrhea and enteritis (2 years and over)	7, 259	6, 565	7.5	7.0
Diseases of the arteries, atheroma, aneurysm, etc	22, 085	20, 826	22.8	22.
Diabetes mellitus	17, 357	17, 182	17. 9	18.
Syphilis 3	15, 811	15, 360	16.3	16.
Appendicitis and typhlitis	14, 345	13, 229	14.8	14.
Diphtheria	11, 733	13, 659	12.1	14.
Suicide	11, 287	11,053	11.6	11.
Measles	10, 450	4,042	10.8	4.
Hernia, intestinal obstruction	10, 211	9, 844	10. 5	10.
Respiratory diseases other than bronchitis and pneumonia		.,	-	
(all forms)	9, 550	9, 301	9.8	10.
Puerperal causes other than puerperal septicemia	9, 448	9, 322	9. 7	10.
Whooping cough	9, 440	5, 220	9.7	5.
Bronchitis	8, 815	8, 740	9.1	9.
Tomicide	7, 878	7, 788	8.1	8.4
Cirrhosis of the liver	7,027	6, 977	7.2	7.
Typhoid and paratyphoid fever	6, 635	6, 981	6.8	7.
Paralysis without specified cause	6, 056	6, 107	6.2	6.
Puerperal septicemia	5, 657	5, 335	5.8	5.
Rheumatism	4, 064	4, 118	4.2	4.
Meningitis (nonepidemic)	3, 652	3, 397	3.8	3.
Scarlet fever	3, 440	3, 256	3, 5	3. /
Dysentery	3, 118	2,735	3, 2	2.5
Valaria	2, 736	3, 336	2.8	3.
Crysipelas	2, 593	2, 315	2.7	2.
Pellagra	2, 352	2, 640	2.4	2.5
otherwis encephalitie	1, 966	1, 268	2.0	1.4
ethargic encephalitis	1,026	895	1.1	1.0
Meningococcus meningitis	131	628	.1	1.
Smallpox	107, 402	101, 688	110.7	109.
All other defined causes	16, 638	16, 510	17. 2	17. 7
hknown of in-defined causes	10, 038	10, 510	11.2	11.

DEATHS DURING WEEK ENDED DECEMBER 6, 1924.

Summary of information received by telegraph from industrial insurance companies for week ended December 6, 1924, and corresponding week of 1923. (From the Weekly Health Index, December 9, 1924, issued by the Bureau of the Census, Department of Commerce.)

	Week ended Dec. 6, 1924.	Corresponding week, 1923.
Policies in force	57, 048, 107	54, 214, 532
Number of death claims	10, 497	10, 218
Death claims per 1,000 policies in force, annual rate.	9. 6	9. 8

Includes airplane, balloon, and motor-cycle accidents.
 Includes tabes dorsalis (locomotor ataxia) and general paralysis of the insane.

Deaths from all causes in certain large cities of the United States during the week ended December 6, 1924, infant mortality, annual death rate, and comparison with corresponding week of 1923. (From the Weekly Health Index, December 9, 1924, issued by the Bureau of the Census, Department of Commerce.)

Total deaths			ded Dec. 924.	Annual death rate		under 1 ear.	Infant mortal- ity rate.	
Akron	City.			sponding week,	ended Dec. 6,	sponding week,	week ended Dec. 6, 1924.2	
Albany	Total (64 cities)	6, 892	13. 3	8 12. 5	790	* 802		
Albany	Akron	36			7	3	7	
Baltimore to the property of t	Albany 4			17.3				
Simpligham	Atlanta						***********	
Boston	Baltimore '		23.6				11	
Bridgeport. 33 12.2 12.3 14 10	Roston				22	26	6	
Buffalo	Bridgeport	33					9	
Camden	Buffalo						5	
Canton	Cambridge		21.0	14.0		3	10	
Chicago	Canden						1 6	
Cincinnati	Chicago 4						7	
Deleveland 194	Cincinnati	132	16.9	15.4	18	9	11	
Columbus	Cleveland	194	11.1	10.0	22		5	
Den Note					7	6	6	
Description			13.0	12.3			*******	
Detroit			10.4	14.1	2			
Duluth			10. 1	14.1	42	44	7	
Fall River 4	Duluth.	18	8.7	9.8	1	2	2	
Fint	Crie		******		0	2		
Fort Worth	Fall River 4		13. 4	11.6	3		4	
Houston	Cart Worth	13	0 1	19 9	3		5	
Houston	Grand Rapids	37	13.0		5		7	
Indianapolis	Houston	26			6	6		
Fersey City 79 13. 2 11. 0 9 4	Indianapolis						5	
10	acksonville, Fla						6	
204 29 17 29 17 200 29 18 3 6 6 5 6 6 5 6 6 6 5 6 6	Forese City Kons		13. 2	18.0			1	
204 29 17 29 17 200 29 18 3 6 6 5 6 6 5 6 6 6 5 6 6	Cansas City, Mans		10.7	17. 2				
Description Company	os Angeles	204					9	
Memphis 65 19.7 19.6 8 15 Milwaukee 105 11.5 18.8 17 15 Milwaukee 105 11.5 15 15 Milwaukee 105 11.5 15 Milwaukee 11.5 Milwaukee 125 15.6 11.3 13 10 10 Milwaukee 125 13.3 10.6 14 13 Milwaukee 15 15 10.6 15 15 15 15 15 15 15 1	Louisville	79	15.9				2	
Milwaukee 105 11.1 8.8 17 15 Minneapolis 125 15.6 11.3 13 10 Nashville* 33 13.9 14.5 8 6 New Bedford 23 9.0 8.8 3 5 New Bedford 23 9.0 8.8 3 5 New Bedford 23 9.0 22.0 10.0 14 11 New Fore 157 20.0 21.0 14 11 11 11 11 11 11 11 11 11 11 11 12 12 11.0 14 11 11 11 12 13 16 4 3 12 13 16 4 3 12 12 11.0 14 11 11 12 12 11.0 16 3 14 14 14 14 14 14 14 14 14 14 14	owell						10	
Minneapolis								
Nashville 'now Bedford. 33 13.9 14.5 8 6 New Bedford. 23 9.0 8.8 3 5 New Haven. 45 13.3 10.6 4 3 New York 157 20.0 21.0 14 11 New York 1,389 12.0 11.0 169 161 Brooklyn Borough 170 10.2 8.8 20 14 Manhattan Borough 588 13.6 13.0 86 84 Queens Borough 121 11.4 8.7 13 7 Richmond Borough 63 25.1 19.6 4 2 Newark, N. J 95 11.1 12.5 14 14 Norfolk 39 12.4 7.9 7 4 Jakland 82 17.3 8.9 7 3 Newark, N. J 39 12.4 7.9 7 4 Jakland 82	Vinneapolis						7	
New Bedford. 23 9.0 8.8 3 5 New Haven. 45 13.3 10.6 4 3 New Orleans. 157 20.0 21.0 14 11 New Orleans. 1,389 12.0 11.0 169 161 Bronx Borough 170 10.2 8.8 20 14 Brooklyn Borough 447 10.6 9.8 46 54 Manbatatan Borough 588 13.6 13.0 86 84 Queens Borough 121 11.4 8.7 13 7 Richmond Borough 63 25.1 10.6 4 2 N. J. 95 11.1 12.5 14 14 Vorfolk 39 12.4 7.9 7 4 Dakland 82 17.3 8.9 7 3 Paterson 35 13.0 13.1 6 3 Paterson 35 13.0	Nashville 4	33	13. 9		8	6		
New Orleans. 157 20.0 21.0 14 11	New Bedford				3		4	
New York 1,389 12.0 11.0 169 161 Bronx Borough 170 10.2 8.8 20 14 Brooklyn Borough 447 10.6 9.8 46 54 Manhattan Borough 588 13.6 13.0 86 84 Queens Borough 121 11.4 8.7 13 7 Richmond Borough 63 25.1 19.6 4 2 Kewark, N. J. 95 11.1 12.5 14 14 Norfolk 39 12.4 7.9 7 4 Oakland 82 17.3 8.9 7 3 Oklahoma City 34 17.0 7 5 Taterson 35 13.0 13.6 3 Pailadelphia 588 15.7 14.5 60 55 Pittsburgh 178 14.8 16.8 23 20 Portland, Oreg 60 11.3 9.7	New Haven							
Brooklyn Borough	New Urleans	1 380				161		
Brooklyn Borough	Bronx Borough	170					1	
Queens Borough 121 11.4 8.7 13 7 Richmond Borough 63 25.1 19.6 4 2 Newark, N. J. 95 11.1 12.5 14 14 Norfolk 39 12.4 7.9 7 4 Jakland 82 17.3 8.9 7 3 Jaklandma City 34 17.0	Brooklyn Borough	447	10.6	9.8	46	54	4	
Newark, N. J. 95 11.1 12.5 14 14 Norfolk. 39 12.4 7.9 7 4 Jakland. 82 17.3 8.9 7 3 Jklahoma City. 34 17.0	Manhattan Borough		13. 6	13.0			8	
Newark, N. J. 95 11.1 12.5 14 14 Norfolk. 39 12.4 7.9 7 4 Jakland. 82 17.3 8.9 7 3 Jklahoma City. 34 17.0	Queens Borough			8.7				
Norfolk 39 12.4 7.9 7 4 Jokland 82 17.3 8.9 7 3 Joklahoma City 34 17.0 7 5 Johnsh 69 17.3 9.7 7 5 Zaterson 35 13.0 13.1 6 3 Philadelphia 588 15.7 14.5 60 55 Pittsburgh 178 14.8 16.8 23 20 Portland, Oreg 60 11.3 9.7 3 6 Providence 71 15.2 14.6 6 11 tichmond 53 15.0 13.8 4 14 tochester 73 11.7 7 7 1.6 1.6 1.6 1.7 1.6 1.6 1.1 1.7 7 1.7 1.6 1.7 1.7 1.7 1.7 1.7 1.7 1.7 1.7 1.7 1.7 1.7	Namork N. I	95					7	
bklahoma City 34 17. 0	Vorfolk	39			7		12	
bklahoma City 34 17. 0				8,9	7		8	
Paterson	oklahoma City							
bhiladelphia 588 15.7 14.5 60 55 clitsburgh 178 14.8 16.8 23 20 cortland, Oreg 60 11.3 9.7 3 6 crovidence 71 15.2 14.6 6 11 tichmond 53 15.0 13.8 4 14 tochester 73 11.7 7 7 t. Louis 226 14.5 13.9 17 16		69	17.3	9.7			7	
Pittsburgh 178 14.8 16.8 23 20 Portland, Oreg 60 11.3 9.7 3 6 Providence 71 15.2 14.6 6 11 tichmond 53 15.0 13.8 4 14 tochester 73 11.7 7 t. Louis 226 14.5 13.9 17 16		35	13. 0		6		10	
Portland, Oreg. 60 11.3 9.7 3 6 Providence. 71 15.2 14.6 6 11 Richmond. 53 15.0 13.8 4 14 Rochester. 73 11.7 7 7 t. Louis. 226 14.5 13.9 17 16	Pittsburgh				23		7	
Providence 71 15.2 14.6 6 11 tichmond 53 15.0 13.8 4 14 3cochester 73 11.7 7 7 st. Louis 226 14.5 13.9 17 16	Portland, Oreg		11.3	9.7	3		3	
tichmond 53 15.0 13.8 4 14 tochester 73 11.7 7 7 t. Louis 226 14.5 13.9 17 16	Providence	71	15, 2	14.6	6	11	4	
t. Louis 226 14.5 13.9 17 16				13.8	4	14	1	
				12.0		10	5	
C. FRIII	st. Paul	54	11.5	11.6	3	10	2	
Salt Lake City 4				12.4	0		•	
Fan Antonio 63 17. 2 14. 7 17 16	an Antonio	63	17. 2	14.7		16		

Data for 62 cities.
 Deaths for week ended Friday, December 5, 1924.

¹ Annual rate per 1,000 population.

² Deaths under 1 year per 1,000 births—an annual rate based on deaths under 1 year for the week and estimated births for 1923. Cities left blank are not in the registration area for births.

Deaths from all causes in certain large cities of the United States during the week ended December 6, 1924, infant mortality, annual death rate, and comparison with corresponding week of 1923. (From the Weekly Health Index, December 9, 1924, issued by the Bureau of the Census, Department of Commerce)—Contd.

	Week ended Dec. 6, 1924.		Annual death rate	Deaths under 1 year.		Infant mortal-
City.	Total deaths.	Death rate.	per 1,000 corre- sponding week, 1923.	Week ended Dec. 6, 1924.	Corresponding week, 1923.	ity rate, week ended Dec. 6, 1924.
SchenectadySeattle	24 63 19	12.5	7.4	1 2	2 5 5	36
Somerville Spokane	25	9. 9	10.6	4	2	27 85
Springfield, MassSyracuse	26 46	9.1 12.8	10.1	4	3 6	68
Tacoma	21	10.6	9.7	i	2	24
Toledo	79	14, 9	10, 5	12	ī	113
Trenton	47	18.9	13. 9	12 7	5	116
Utica	27	13. 4	13. 1	7	6	153
Washington, D. C	143	15.3	11.2	14	13	81
Waterbury	20			3	2	70
Wilmington, Del	34	14.8	13.3	4	2	89
Worcester	48	12.8	11.7	11	4	132
Yonkers	14	6.7	7.8	0	1	0
Youngstown	30	10.1	9.7	7	6	96

PREVALENCE OF DISEASE.

No health department, State or local, can effectively prevent or control disease without knowledge of when, where, and under what conditions cases are occurring.

UNITED STATES.

CURRENT WEEKLY STATE REPORTS.

These reports are preliminary, and the figures are subject to change when later returns are received by the State health officers.

Reports for Week Ended December 13, 1924.

ALABAMA.		CALIFORNIA.	
	ses.		ses.
Cerebrospinal meningitis		Cerebrospinal meningitis:	
Chicken pox		Fresno	1
Diphtheria		Diphtheria	
Influenza	130	Influenza	15
Malaria		Jaundice:	
Measles	32	Pasadena	1
Mumps	18	Measles	35
Ophthalmia neonatorum	1	Poliomyelitis:	
Pellagra	3	Alameda	1
Pneumonia		Berkeley	2
Scarlet fever	13	Colusa	1
Smallpox	73	Nevada County	1
Tuberculosis	31	Oakland	1
Typhoid fever	15	Pasadena	1
Whooping cough	8	Scarlet fever	155
		Smallpox:	
ARIZONA.		Los Angeles	20
Chicken pox	8	Los Angeles County	15
Diphtheria	4	Scattering	34
Measles	110	Typhoid fever	26
Mumps	19	Typhus fever:	-0
Scarlet fever	11	Los Angeles	1
Smallpox	5	Los Angeles	
Tuberculosis	113	COLORADO.	
Typhoid fever	4	(Exclusive of Denver.)	•
Whooping cough	4	(Exclusive of Denver.)	
w nooping cough		Cerebrospinal meningitis	1
ARKANSAS.		Chicken pox	70
Chicken pox	26	Diphtheria	10
Diphtheria	10	Measles	1
Influenza	56	Mumps	15
Malaria	35	Pneumonia	3
Measles	2	Scarlet fever	29
Mumps	3	Tuberculosis	28
Paratyphoid fever	1	Whooping cough	7
Pellagra	5		
	19	CONNECTICUT.	
Searlet fever	3	Cerebrospinal meningitis	1
Smallpox	43	Chicken pox	78
Trachoma	5	Conjunctivitis (infectious)	1
Tuberculosis	-	Diphtheria	52
Typhoid fever	17	Favus	1
Whooping cough	7	• • • • • • • • • • • • • • • • • • • •	
	(20	1.4\	

CONNECTICUT—continued.	ases.	ILLINOIS—continued.	ises.
		Scarlet fever:	ises.
German measles			-
Hookworm disease		Cook County	
Influenza		· Kane County	
Measles		Schuyler County	
Mumps		Will County	
Pneumonia (lobar)	. 31	Scattering	101
Poliomyelitis	. 1	Smallpox:	
Scarlet fever		Christian County	21
Septic sore throat		Lake County	
Tuberculosis (all forms)		Scattering	
Typhoid fever	-	Tuberculosis	-
		Typhoid fever:	112
Whooping cough	. 00		-
		Cook County	
DELAWARE.		Randolph County	
		Scattering	
Cerebrospinal meningitis	-	Whooping cough	292
Chicken pox		INDIANA.	
Diphtheria			000
Influenza	. 1	Chicken pox	
Measles	. 1	Diphtheria	
Mumps		Influenza	
Pneumonia		Measles	
Scarlet fever		Mumps	
Tuberculosis	-	Pneumonia	18
1 dbercurosis		Scarlet fever:	
FLORIDA.		Bartholomew County	8
Diphtheria	25	Marion County	13
Influenza.		Vigo County	
		Scattering	71
Malaria		Smallpox:	11
Pneumonia			
Poliomyelitis		Marion County	13
Scarlet fever		Scattering	36
Typhoid fever	18	Trachoma	1
		Tuberculosis	11
GEORGIA.		Typhoid fever	23
Chicken per	18	Whooping cough	16
Chicken pox	å	IOWA.	
Conjunctivitis (infectious)		Diphtheria	23
Diphtheria		Poliomyelitis	1
Hookworm disease		Scarlet fever	41
Influenza		Smallpox	60
Malaria	4	Smanpox	00
Measles	1	KANSAS.	
Mumps	25	Chicken pox	138
Pneumonia	29	Diphtheria	52
Scarlet fever	6	Influenza	10
Smallpox	1	Measles	9
Tuberculosis (all forms)	14	Mumps	-
Whooping cough	3	Pneumonia	
The state of the s		Scarlet fever	18
ILLINOIS.			
ILLINOIS.		Smallpox	4
Cerebrospinal meningitis:		Tuberculosis	58
Coles County		Typhoid fever	3
Will County	1	Whooping cough	20
	1	LOUISIANA.	
Diphtheria:			
Cook County	98	Cerebrospinal meningitis	1
Scattering	77	Diphtheria	27
Influenza	22	Dysentery	1
Lethargic encephalitis:		Hookworm disease	6
Cook County	3	Malaria	6
Measles	170	Pneumonia	34
Pneumonia	285	Poliomyelitis	1
Poliomyelitis:		Scarlet fever	17
Clay County	1	Smallpox	4
Iroquois County			•
La Salle County	1	Tunhoid forces	24
sa sane county	1	Typhoid fever	63

MAINE.		MINNESOTA—continued.	ises.
	ises.		-
Chicken pox		Measles	
Diphtheria		Pneumonia	
German measles	1	Poliomyelitis	2
Influenza	3	Scarlet fever	220
Measles	6	Smallpox	110
Mumps		Tuberculosis	
Pneumonia		Typhoid fever	
Poliomyelitis		Whooping cough	
		w nooping coagn	10
Scarlet fever		MISSISSIPPI.	
Septic sore throat		Diphtheria	15
Tuberculosis		Scarlet fever	
Typhoid fever		Smallpox	
Whooping cough	22	Typhoid fever	
MARYLAND, 1			10
Chicken pox	94	MISSOURI.	
Diphtheria		Cerebrospinal meningitis	1
Influenza		Chicken pox	
		Diphtheria	
Lethargic encephalitis	-		
Measles		Epidemic sore throat	
Mumps.		Influenza	
Ophthalmia neonatorum		Measles	
Paratyphoid fever		Mumps	
Pneumonia (all forms)		Ophthalmia neonatorum	
Scarlet fever		Pneumonia	
Septic sore throat	3	Scarlet fever	251
Tuberculosis	55	Smallpox	3
Typhoid fever	11	Trachoma	3
Whooping cough	86	Tuberculosis	34
		Typhoid fever	6
MASSACHUSETTS.		Whooping cough	3
Chicken pox	346	whooping cough	
Conjunctivitis (suppurative)		MONTANA	
Conjunctivitis (suppurative)	11	MONTANA.	99
Diphtheria	11 165	Diphtheria	
DiphtheriaGerman measles	11 165 32	Diphtheria	15
Diphtheria	11 165 32 2	Diphtheria	15
Diphtheria	11 165 32 2 19	Diphtheria Scarlet fever Smallpox	15
Diphtheria	11 165 32 2 19 2	Diphtheria	15 12
Diphtheria	11 165 32 2 19 2	Diphtheria	15 12 2
Diphtheria	11 165 32 2 19 2 1 179	Diphtheria Scarlet fever Smallpox NEW JERSEY Cerebrospinal meningitis Chicken pox	15 12 2 236
Diphtheria	11 165 32 2 19 2 1 179 79	Diphtheria Scarlet fever Smallpox NEW JERSEY. Cerebrospinal meningitis Chicken pox Diphtheria	15 12 2 236 124
Diphtheria	11 165 32 2 19 2 1 179 79	Diphtheria Scarlet fever Smallpox NEW JERSEY Cerebrospinal meningitis Chicken pox	15 12 2 236 124 20
Diphtheria German measles Hookworm desease Influenza Lethargic encephalitis Malaria Measles Mumps Ophthalmia neonatorum Pneumonia (lobar)	11 165 32 2 19 2 1 179 79 16 128	Diphtheria Scarlet fever Smallpox NEW JERSEY. Cerebrospinal meningitis Chicken pox Diphtheria	15 12 2 236 124 20
Diphtheria German measles Hookworm desease Influenza Lethargic encephalitis Malaria Measles Mumps Ophthalmia neonatorum	11 165 32 2 19 2 1 179 79 16 128	Diphtheria Scarlet fever Smallpox NEW JERSEY. Cerebrospinal meningitis Chicken pox Diphtheria Influenza	15 12 2 236 124 20 63
Diphtheria German measles Hookworm desease Influenza Lethargic encephalitis Malaria Measles Mumps Ophthalmia neonatorum Pneumonia (lobar)	11 165 32 2 19 2 1 179 79 16 128 6	Diphtheria	15 12 2 236 124 20 63 5
Diphtheria German measles Hookworm desease Influenza Lethargic encephalitis Malaria Measles Mumps Ophthalmia neonatorum Pneumonia (lobar) Poliomyelitis Scarlet fever	11 165 32 2 19 2 1 179 79 16 128 6 296	Diphtheria Scarlet fever Smallpox NEW JERSEY. Cerebrospinal meningitis Chicken pox Diphtheria Influenza Mensles Peratyphoid fever Pneumonia	15 12 2 236 124 20 63 5 176
Diphtheria German measles Hookworm desease Influenza Lethargic encephalitis Malaria Measles Mumps Ophthalmia neonatorum Pneumonia (lobar) Poliomyelitis Scarlet fever Septic sore throat	11 165 32 2 19 2 1 179 79 16 128 6 296	Diphtheria Scarlet fever Smallpox NEW JERSEY. Cerebrospinal meningitis Chicken pox Diphtheria Influenza Measles Paratyphoid fever Pneumonia Scarlet fever	15 12 2 236 124 20 63 5 176 211
Diphtheria German measles Hookworm desease Influenza Lethargic encephalitis Malaria Measles Mumps Ophthalmia neonatorum Pneumonia (lobar) Poliomyelitis Scarlet fever Septie sore throat Trachoma	11 165 32 2 19 2 1 179 79 16 128 6 296 7	Diphtheria Scarlet fever Smallpox NEW JERSEY. Cerebrospinal meningitis Chicken pox Diphtheria Influenza Mensles Paratyphoid fever Pneumonia Scarlet fever Smallpox	15 12 236 124 20 63 5 176 211 2
Diphtheria German measles Hookworm desease Influenza Lethargic encephalitis Malaria Measles Mumps Ophthalmia neonatorum Pneumonia (lobar) Poliomyelitis Scarlet fever Septie sore throat Trachoma Trichinosis	11 165 32 2 19 2 1 179 79 16 128 6 296 7	Diphtheria Scarlet fever Smallpox NEW JERSEY. Cerebrospinal meningitis Chicken pox Diphtheria Influenza Mensles Paratyphoid fever Pneumonia Scarlet fever Smallpox Trachoma	15 12 2 236 124 20 63 5 176 211 2
Diphtheria German measles Hookworm desease Influenza Lethargic encephalitis Malaria Measles Mumps Ophthalmia neonatorum Pneumonia (lobar) Poliomyelitis Scarlet fever Septic sore throat Trachoma Trichinosis Tuberculosis (all forms)	11 165 32 2 19 2 1 179 79 16 128 6 296 7 1	Diphtheria Scarlet fever Smallpox NEW JERSEY. Cerebrospinal meningitis Chicken pox Diphtheria Influenza Measles Peratyphoid fever Pneumonia Scarlet fever Smallpox Trachoma Typhoid fever Typhoid fever	15 12 236 124 20 63 5 176 211 2
Diphtheria German measles Hookworm desease Influenza Lethargic encephalitis Malaria Measles Mumps Ophthalmia neonatorum Pneumonia (lobar) Poliomyelitis Scarlet fever Septic sore throat Trachoma Trichinosis Tuberculosis (all forms) Typhoid fever	11 165 32 2 19 2 1 179 79 16 128 6 296 7 1 1 117 25	Diphtheria Scarlet fever Smallpox NEW JERSEY. Cerebrospinal meningitis Chicken pox Diphtheria Influenza Mensles Paratyphoid fever Pneumonia Scarlet fever Smallpox Trachoma	15 12 2 236 124 20 63 5 176 211 2 1
Diphtheria German measles Hookworm desease Influenza Lethargic encephalitis Malaria Measles Mumps Ophthalmia neonatorum Pneumonia (lobar) Poliomyelitis Scarlet fever Septic sore throat Trachoma Trichinosis Tuberculosis (all forms) Typhoid fever Whooping cough	11 165 32 2 19 2 1 179 79 16 128 6 296 7 1 1 117 25	Diphtheria Scarlet fever Smallpox NEW JERSEY. Cerebrospinal meningitis Chicken pox Diphtheria Influenza Measles Peratyphoid fever Pneumonia Scarlet fever Smallpox Trachoma Typhoid fever Typhoid fever	15 12 2 236 124 20 63 5 176 211 2 1
Diphtheria German measles Hookworm desease Influenza Lethargic encephalitis Malaria Measles Mumps Ophthalmia neonatorum Pneumonia (lobar) Poliomyelitis Scarlet fever Septic sore throat Trachoma Trichinosis Tuberculosis (all forms) Typhoid fever Whooping cough	11 165 32 2 19 2 1 179 79 16 128 6 296 7 1 1 117 25 149	Diphtheria Scarlet fever Smallpox NEW JERSEY. Cerebrospinal meningitis Chicken pox Diphtheria Influenza Mensles Peratyphoid fever Pneumonia Scarlet fever Smallpox Trachoma Typhoid fever Whooping cough	15 12 2 236 124 20 63 5 176 211 2 1
Diphtheria German measles Hookworm desease Influenza Lethargic encephalitis Malaria Measles Mumps Ophthalmia neonatorum Pneumonia (lobar) Poliomyelitis Scarlet fever Septic sore throat Trachoma Trichinosis Tuberculosis (all forms) Typhoid fever Whooping cough	11 165 32 2 19 2 1 179 79 16 128 6 296 7 1 1 117 25 149	Diphtheria Scarlet fever Smallpox NEW JERSEY. Cerebrospinal meningitis Chicken pox Diphtheria Influenza. Mensles Paratyphoid fever Pneumonia Scarlet fever Smallpox Trachoma Typhoid fever Whooping cough	15 12 236 124 20 63 5 176 211 2 1 29 232
Diphtheria German measles Hookworm desease Influenza Lethargic encephalitis Malaria Measles Mumps Ophthalmia neonatorum Pneumonia (lobar) Poliomyelitis Scarlet fever Septic sore throat Trachoma Trichinosis Tuberculosis (all forms) Typhoid fever Whooping cough	11 165 32 2 19 2 1 179 79 16 128 6 296 7 1 117 25 149	Diphtheria Scarlet fever Smallpox NEW JERSEY. Cerebrospinal meningitis Chicken pox Diphtheria Influenza Measles Paratyphoid fever Pneumonia Scarlet fever Smallpox Trachoma Typhoid fever Whooping cough NEW MEXICO. Anthrax Chicken pox	15 12 236 124 20 63 5 176 211 2 1 29 232
Diphtheria German measles Hookworm desease Influenza Lethargic encephalitis Malaria Measles Mumps Ophthalmia neonatorum Pneumonia (lobar) Poliomyelitis Scarlet fever Septic sore throat Trachoma Trichinosis Tuberculosis (all forms) Typhoid fever Whooping cough MICHIGAN. Diphtheria Measles	11 165 32 2 19 2 1 179 79 16 128 6 296 7 1 117 25 149	Diphtheria Scarlet fever. Smallpox NEW JERSEY. Cerebrospinal meningitis Chicken pox Diphtheria Influenza Mensles Paratyphoid fever Pneumonia Scarlet fever Smallpox Trachoma Typhoid fever Whooping cough NEW MEXICO. Anthrax Chicken pox Diphtheria	15 12 2 236 124 20 63 5 176 211 2 29 232
Diphtheria German measles Hookworm desease Influenza Lethargic encephalitis Malaria Measles Mumps Ophthalmia neonatorum Pneumonia (lobar) Poliomyelitis Scarlet fever Septic sore throat Trachoma Trichinosis Tuberculosis (all forms) Typhoid fever Whooping cough MICHIGAN, Diphtheria Measles Pneumonia	11 165 32 2 19 2 1 179 79 16 128 6 7 1 1 117 25 149	Diphtheria Scarlet fever Smallpox NEW JERSEY. Cerebrospinal meningitis Chicken pox Diphtheria Influenza Mensles Peratyphoid fever Pneumonia Scarlet fever Smallpox Trachoma Typhoid fever Whooping cough NEW MEXICO. Anthrax Chicken pox Diphtheria Measles Mensles NEW MEXICO.	15 12 2 236 124 20 63 5 176 211 2 1 29 232
Diphtheria German measles Hookworm desease Influenza Lethargic encephalitis Malaria Measles Mumps Ophthalma neonatorum Pneumonia (lobar) Poliomyelitis Scarlet fever Septic sore throat Trachoma Trichinosis Tuberculosis (all forms) Typhoid fever Whooping cough MICHIGAN, Diphtheria Measles Pneumonia Scarlet fever	11 165 32 2 19 2 1 179 79 16 128 6 296 7 1 1 117 25 149	Diphtheria Scarlet fever Smallpox NEW JERSEY. Cerebrospinal meningitis Chicken pox Diphtheria Influenza Measles Paratyphoid fever Pneumonia Scarlet fever Smallpox Trachoma Typhoid fever Whooping cough NEW MEXICO. Anthrax Chicken pox Diphtheria Measles Pneumonia	15 12 236 124 20 63 5 176 211 2 1 29 232 1 16 4 26 5
Diphtheria German measles Hookworm desease Influenza Lethargic encephalitis Malaria Measles Mumps Ophthalmia neonatorum Pneumonia (lobar) Poliomyelitis Scarlet fever Septic sore throat Trachoma Trichinosis Tuberculosis (all forms) Typhoid fever Whooping cough MICHIGAN, Diphtheria Measles Pneumonia Scarlet fever Sentes ore throat Sentes ore throat Sentes ore throat Tuberculosis (all forms) Typhoid fever Typhoid fever Whooping cough	11 165 32 2 19 2 1 179 79 16 128 6 296 7 1 117 25 149 115 152 86 287 7	Diphtheria Scarlet fever Smallpox NEW JERSEY. Cerebrospinal meningitis Chicken pox Diphtheria Influenza Measles Peratyphoid fever Pneumonia Scarlet fever Smallpox Trachoma Typhoid fever Whooping cough NEW MEXICO. Anthrax Chicken pox Diphtheria Measles Pneumonia Rabies in animals	15 12 2 236 124 20 63 5 176 211 2 9 232 1 16 4 26 5
Diphtheria German measles Hookworm desease Influenza Lethargic encephalitis Malaria Measles Mumps Ophthalmia neonatorum Pneumonia (lobar) Poliomyelitis Scarlet fever Septic sore throat Trachoma Trichinosis Tuberculosis (all forms) Typhoid fever Whooping cough MICHIGAN, Diphtheria Measles Pneumonia Scarlet fever Sentes over throat Trachoma Trichinosis Tuberculosis (all forms) Typhoid fever Whooping cough MICHIGAN, Diphtheria Measles Pneumonia Scarlet fever Smallpox Tuberculosis	11 165 32 2 19 2 1 179 79 16 128 6 296 7 1 117 25 149 115 152 86 86 7 7 7 7 7 7 7 7 7 7 7 7 7	Diphtheria Scarlet fever Smallpox NEW JERSEY. Cerebrospinal meningitis Chicken pox Diphtheria Influenza Mensles Paratyphoid fever Pneumonia Scarlet fever Smallpox Trachoma Typhoid fever Whooping cough NEW MEXICO. Anthrax Chicken pox Diphtheria Mensles Pneumonia Scarlet fever Smallpox Trachoma Typhoid fever Whooping cough	15 12 2 236 63 5 176 211 2 9 232 1 16 4 26 5 116 4 26 5
Diphtheria German measles Hookworm desease Influenza Lethargic encephalitis Malaria Measles Mumps Ophthalmia neonatorum Pneumonia (lobar) Poliomyelitis Scarlet fever Septie sore throat Trachoma Trichinosis Tuberculosis (all forms) Typhoid fever Whooping cough MICHIGAN. Diphtheria Measles Pneumonia Scarlet fever Smallpox Tuberculosis Typhoid fever	11 165 32 2 19 2 1 179 79 16 128 6 7 1 1 117 25 149 115 152 86 287 7 18	Diphtheria Scarlet fever. Smallpox. NEW JERSEY. Cerebrospinal meningitis Chicken pox Diphtheria Influenza. Mensles Paratyphoid fever. Pneumonia. Scarlet fever. Smallpox. Trachoma. Typhoid fever. Whooping cough NEW MEXICO. Anthrax. Chicken pox. Diphtheria. Measles. Pneumonia. Scarlet fever. Smallpox. Smallpox. Trachoma. Typhoid fever. Whooping cough. NEW MEXICO. Anthrax. Chicken pox. Diphtheria. Measles. Pneumonia. Rabies in animals Scarlet fever. Septic sore throat.	15 12 2 236 63 5 176 211 2 9 232 1 16 4 26 5 1 10 10
Diphtheria German measles Hookworm desease Influenza Lethargic encephalitis Malaria Measles Mumps Ophthalmia neonatorum Pneumonia (lobar) Poliomyelitis Scarlet fever Septic sore throat Trachoma Trichinosis Tuberculosis (all forms) Typhoid fever Whooping cough MICHIGAN, Diphtheria Measles Pneumonia Scarlet fever Sentes over throat Trachoma Trichinosis Tuberculosis (all forms) Typhoid fever Whooping cough MICHIGAN, Diphtheria Measles Pneumonia Scarlet fever Smallpox Tuberculosis	11 165 32 2 19 2 1 179 79 16 128 6 7 1 1 117 25 149 115 152 86 287 7 18	Diphtheria Scarlet fever. Smallpox NEW JERSEY. Cerebrospinal meningitis Chicken pox Diphtheria Influenza Mensles Paratyphoid fever. Pneumonia Scarlet fever. Smallpox Trachoma Typhoid fever Whooping cough NEW MEXICO. Anthrax Chicken pox Diphtheria Measles Pneumonia Rables in animals Scarlet fever. Septie sore throat Smallpox	15 12 2 236 124 20 63 5 176 211 2 2 1 29 232 1 16 4 26 5 1 10 10 10 10 10 10 10 10 10 10 10 10 1
Diphtheria German measles Hookworm desease Influenza Lethargic encephalitis Malaria Measles Mumps Ophthalmia neonatorum Pneumonia (lobar) Poliomyelitis Scarlet fever Septic sore throat Trachoma Trichinosis Tuberculosis (all forms) Typhoid fever Whooping cough MICHIGAN. Diphtheria Measles Pneumonia Scarlet fever Smallpox Tuberculosis Typhoid fever Whooping cough	11 165 32 2 19 2 1 179 79 16 128 6 7 1 1 117 25 149 115 152 86 287 7 18	Diphtheria Scarlet fever Smallpox NEW JERSEY. Cerebrospinal meningitis Chicken pox Diphtheria Influenza Measles Peratyphoid fever Pneumonia Scarlet fever Smallpox Trachoma Typhoid fever Whooping cough NEW MEXICO. Anthrax Chicken pox Diphtheria Measles Pneumonia Rabies in animals Scarlet fever Septie sore throat Smallpox Tretanus	15 12 2 236 124 20 63 5 176 211 2 2 1 29 232 1 16 4 26 5 1 10 10 10 10 10 10 10 10 10 10 10 10 1
Diphtheria German measles Hookworm desease Influenza Lethargic encephalitis Malaria Measles Mumps Ophthalmia neonatorum Pneumonia (lobar) Poliomyelitis Scarlet fever Septie sore throat Trachoma Trichinosis Tuberculosis (all forms) Typhoid fever Whooping cough MICHIGAN. Diphtheria Measles Pneumonia Scarlet fever Smallpox Tuberculosis Typhoid fever	11 165 32 2 19 2 1 179 79 16 128 6 7 1 1 117 25 149 115 152 86 287 7 18	Diphtheria Scarlet fever Smallpox NEW JERSEY. Cerebrospinal meningitis Chicken pox Diphtheria Influenza Measles Paratyphoid fever Pneumonia Scarlet fever Smallpox Trachoma Typhoid fever Whooping cough NEW MEXICO. Anthrax Chicken pox Diphtheria Measles Pneumonia Rabies in animals Scarlet fever. Septic sore throat Smallpox Tretanus Tuberculosis	15 12 2 236 124 20 63 5 176 211 2 2 1 29 232 1 16 4 26 5 1 10 10 10 10 10 10 10 10 10 10 10 10 1
Diphtheria German measles Hookworm desease Influenza Lethargic encephalitis Malaria Measles Mumps Ophthalmia neonatorum Pneumonia (lobar) Poliomyelitis Scarlet fever Septic sore throat Trachoma Trichinosis Tuberculosis (all forms) Typhoid fever Whooping cough MICHIGAN. Diphtheria Measles Pneumonia Scarlet fever Smallpox Tuberculosis Typhoid fever Whooping cough	11 165 32 2 19 2 1 179 79 16 128 6 6 296 7 1 1 117 25 149 115 152 86 287 7 87 152 154 157 157 157 157 157 157 157 157	Diphtheria Scarlet fever. Smallpox. NEW JERSEY. Cerebrospinal meningitis. Chicken pox Diphtheria Influenza. Mensles. Paratyphoid fever. Pneumonia. Scarlet fever. Smallpox. Trachoma. Typhoid fever. Whooping cough NEW MEXICO. Anthrax. Chicken pox. Diphtheria. Mensles. Pneumonia. Scarlet fever. Smallpox. Trachoma. Typhoid fever. Whooping cough. NEW MEXICO. Anthrax. Chicken pox. Diphtheria. Mensles. Pneumonia. Rabies in animals. Scarlet fever. Septic sore throat. Smallpox. Tetanus. Tuberculosis. Typhoid fever.	15 12 2 236 124 20 63 5 176 211 2 2 1 29 232 1 16 4 26 5 1 10 10 10 10 10 10 10 10 10 10 10 10 1
Diphtheria German measles Hookworm desease Influenza Lethargic encephalitis Malaria Measles Mumps Ophthalmia neonatorum Pneumonia (lobar) Poliomyelitis Scarlet fever Septic sore throat Trachoma Trichinosis Tuberculosis (all forms) Typhoid fever Whooping cough MICHIGAN. Diphtheria Measles Pneumonia Scarlet fever Semalipox Tuberculosis Typhoid fever Whooping cough	11 165 32 2 19 2 1 179 79 16 128 6 6 296 7 1 1 117 25 149 115 86 86 287 7 87 188 7	Diphtheria Scarlet fever Smallpox NEW JERSEY. Cerebrospinal meningitis Chicken pox Diphtheria Influenza Measles Paratyphoid fever Pneumonia Scarlet fever Smallpox Trachoma Typhoid fever Whooping cough NEW MEXICO. Anthrax Chicken pox Diphtheria Measles Pneumonia Rabies in animals Scarlet fever. Septic sore throat Smallpox Tretanus Tuberculosis	15 12 2 2366 124 20 63 5 176 211 2 29 232 1 16 4 26 5 1 10 1 10 10 10 10 10 10 10 10 10 10 10

¹ Week ended Friday.

NEW YORK.		TEXAS—continued.	
	ses.		1983.
(Exclusive of New York City.)		Diphtheria	
Cerebrospinal meningitis.	1	Dysentery	
Diphtheria		Influenza	
Influenza		Measles	
Lethargic encephalitis		Mumps	
Measles		Ophthalmia neonatorum	
Pneumonia		Paratyphoid fever	
Poliomyelitis		Pellagra	
Scarlet fever		Pneumonia	
Smallpox		Poliomyelitis	2
Typhoid fever		Rabies in man	2
Whooping cough		Scarlet fever	75
* nooping cought		Smallpox	
NORTH CAROLINA.		Trachoma	3
Chicken pox	207	Tuberculosis	87
Diphtheria	73	Typhoid fever.	56
German measles	1	Typhus fever	3
Measles		Whooping cough	23
Scarlet fever	56	VERMONT.	
Septic sore throat	3		
Smallpox	48	Chicken pox	55
Typhoid fever	10	Diphtheria	1
Whooping cough	108	Measles	11
OKLAHOMA.		Mumps	12
		Scarlet fever	16
(Exclusive of Oklahoma City and Tulsa.)		Typhoid fever	8
Diphtheria		Whooping cough	22
Smallpox:	9	WASHINGTON.	
Typhoid fever	51		174
OREGON.		Chicken pox	
Chicken pox	59	Diphtheria	
Diphtheria:	-		
Portland	20	Mumps	53
Scattering.	20	Pneumonia	00
Measles	5	Poliomyelitis:	9
Mumps	7	Seattle	3
Ophthalmia neonatorum	1	Tacoma	1
Pneumonia		Yakima	
Poliomyelitis	3	Island County	1
Scarlet fever:		Jefferson County	1
Hood River County	12	Yakima County	1
Jackson County	8	Scarlet fever	44
Scattering	24	Smallpox	42
Smallpox:		Tuberculosis	
Portland	9	Typhoid fever	2
Scattering	3	Whooping cough	5
Tuberculosis	9	WEST VIRGINIA.	
Typhoid fever	3	Diphtheria	13
Typhold level		Scarlet fever	14
SOUTH DAKOTA.		Smallpox:	
Chicken pox	27	Charleston	9
Diphtheria	2	Typhoid fever	3
Mumps	1	Typhora teres	
Pneumonia	6	WISCONSIN.	
Scarlet fever	41	Milwaukee:	100
Smallpox	18	Chicken pox	
Tuberculosis	1	Diphtheria	
Typhoid fever	3	German measles	-
Whooping cough	4	Lethargic encephalitis	130
TEXAS.		Measles	
	0		4
Anthrax Chielen per	2	Pneumonia	20
Chicken pox	67	Whooping cough	
Dengue	34	whooping cough.	10
² Deaths.			

wisconsin-continu	red.	wisconsin-contin	nued.
Scattering:	Cases.	Scattering-Con.	Cases.
Chicken pox	358	Smallpox	28
Diphtheria	44	Tuberculosis	17
German measles	5	Typhoid fever	1
Influenza	55	Whooping cough	107
Measles	28	WYOMING.	
Mumps	133	Chicken pox	16
Pneumonia	14	Diphtheria	1
Poliomyelitis	4	German measles	4
Scarlet fever	117	Mumps	2

Reports for Week Ended December 6, 1924.

DISTRICT OF COLUMBIA.		NORTH DAKOTA.	
	1803.	Cas	ses.
Chicken pox	36	Cerebrospinal meningitis	1
Diphtheria	22	Chicken pox	66
Influenza	2	Diphtheria	10
Measles	4	Measles	18
Scarlet fever	32	Pneumonia	5
Tuberculosis	27	Poliomyelitis	3
Typhoid fever	10	Scarlet fever	45
Whooping cough		Smallpox	26
NEBRASKA.		Tuberculosis	1
Chicken pox	57	Whooping cough	1
Diphtheria			
German measles		OKLAHOMA.	
Influenza	1	(Exclusive of Oklahoma City and Tulsa.)	
Lethargic encephalitis		Diphtheria	43
Mumps		Smallpox	1
Scarlet fever		Typhoid fever.	1
Smallpox			

SUMMARY OF MONTHLY REPORTS FROM STATES.

The following summary of monthly State reports is published weekly and covers only those States from which reports are received during the current week:

State.	Cere- bro- spinal menin- gitis.	Diph- theria.	Influ- enza.	Ma- laria.	Mea- sles.	Pella- gra.	Polio- my- elitis.	Scarlet fever.	Small- pox.	Ty- phoid fever.
September, 1924. Colorado October, 1924.	1	95		2	11		1	57	3	55
Colorado	1	100	*****		8		1	105	*******	30
Connecticut North Dakota Vermont	3	221 14 29	20	2	22 68 116	******	3 20 1	432 134 79	4 39	12 3 2

PLAGUE IN LOS ANGELES, CALIF.

Reports from Los Angeles, Calif., to December 13, 1924, showed that the last case of human plague was reported November 18, 1924. Forty-seven plague-infected rats had been found.

RODENT PLAGUE IN NEW ORLEANS, LA.

During the week ended December 13, 1924, two additional plagueinfected rats were reported in New Orleans, La.

RODENT PLAGUE IN OAKLAND, CALIF.

Under date of December 15, 1924, confirmation of the finding of a plague-infected rat in Oakland, Calif., was reported. A conference has been arranged between the State health officer and a representative of the Public Health Service for the purpose of discussing measures to prevent the spread of the disease.

GENERAL CURRENT SUMMARY AND WEEKLY REPORTS FROM CITIES.

Diphtheria.—For the week ended November 29, 1924, 35 States reported 1,893 cases of diphtheria. For the week ended December 1, 1923, the same States reported 2,925 cases of this disease. One hundred and four cities, situated in all parts of the country and having an aggregate population of nearly 28,800,000, reported 960 cases of diphtheria for the week ended November 29, 1924. Last year, for the corresponding week, they reported 1,422 cases. The estimated expectancy for these cities was 1,556 cases of diphtheria. The estimated expectancy is based on the experience of the last nine years, excluding epidemics.

Measles.—Thirty States reported 834 cases of measles for the week ended November 29, 1924, and 6,918 cases of this disease for the week ended December 1, 1923. One hundred and four cities reported 364 cases of measles for the week this year, and 1,620 cases last year.

Scarlet fever.—Scarlet fever was reported for the week as follows: Thirty-five States—this year, 2,868 cases; last year, 3,137 cases. One hundred and four cities—this year, 1,282 last year, 1,233 cases; estimated expectancy, 958 cases.

Smallpox.—For the week ended November 29, 1924, 35 States reported 604 cases of smallpox. Last year, for the corresponding week, they reported 510 cases. One hundred and four cities reported smallpox for the week as follows: 1924, 213 cases; 1923, 138 cases estimated expectancy, 66 cases. These cities reported 14 deaths from smallpox for the week this year, 12 of which occurred at Minneapolis.

Typhoid fever.—Four hundred and thirty-three cases of typhoid fever were reported for the week ended November 29, 1924, by 34 States. For the corresponding week of 1923 the same States reported 427 cases. One hundred and four cities reported 162 cases

of typhoid fever for the week this year, and 199 cases for the week last year. The estimated expectancy for these cities was 78 cases. Influenza and pneumonia.—Deaths from influenza and pneumonia (combined) were reported for the week by 104 cities as follows: 1924, 754 deaths; 1923, 722 deaths.

City reports for the week ended November 29, 1924

The "estimated expectancy" given for diphtheria, poliomyelitis, scarlet fever, smallpox, and typhoid fever is the result of an attempt to ascertain from previous occurrence how many cases of the disease under consideration may be expected to occur during a certain week in the absence of epidemics. It is based on reports to the Public Health Service during the past nine years. It is in most instances the median number of cases reported in the corresponding week of the preceding years. When the reports include several epidemics, or when for other reasons the median is unsatisfactory, the epidemic periods are excluded and the estimated expectancy is the mean number of cases reported for the week during nonepidemic years.

If reports have not been received for the full nine years, data are used for as many years as possible, but no year earlier than 1915 is included. In obtaining the estimated expectancy, the figures are smoothed when necessary to avoid abrupt deviations from the usual trend. For some of the diseases given in the table the available data were not sufficient to make it practicable to compute the estimated expectancy.

		Diph	theria.	Influ	ienza.				Scarle	t fever.
Division, State, en en en en en	Chick- en pox, cases re- ported.	Cases, esti- mated expect- ancy.	Cases re- ported.	Cases re- ported.	Deaths re- ported.	Mea- sles, cases re- ported.	Mumps, cases re- ported.	Pneu- monia, deaths, re- ported.	Cases, esti- mated expect- ancy.	Cases re- ported.
NEW ENGLAND.										
Maine:										
Lewiston	3	1	1	0.	0	1	2	2 4	1	1
Portland	20	2	1	0	0	0	13	4	2	(
New Hampshire:										
Concord	0	0	0	0	0	1	0	1	1	
Vermont:	0	0	3	0	0	0	3	0	1	
Burlington	8	2	0	0	0	1	1	1	1	1
Massachusetts:		-	0		0			1.		4
Boston	28	67	35	3	0	39	2	24	33	63
Fall River	0	6	6	0	0	0	0	1	1	1
Springfield	3	6	5	1	0	12	6	3	6	26
Worcester	43	6	1	2	0	1	1	6	11	17
Rhode Island:										
Pawtucket	0	2	0 7	0	0	3	0	0 7	1 9	4
Providence Connecticut:	0	16	,	0	0	1	0		9	9
Bridgeport	7	12	4	1	0	0	1	3	7	
Hartford	2	11	4	i	2	0	3	4	6	10
New Haven	9	6	i	Ô	0	2	0	5	5	38
MIDDLE ATLANTIC.										
New York:										
Buffalo	39	36	6	2	0	32	10	11	21	26
New York	176	205	144	41	7	36	15	177	125	124
Rochester	7	14	2	0	0	6	26	3	10	26
Syracuse	5	13	6	0	0	2	1	3	14	1
New Jersey:				0	0		0	0	3	
Camden Newark	8 33	5 22	10	4	0	20	1	14	15	42
Tranton	3	9	7	i	0	0	ô	1	2	2
Pennsylvania:							0		-	
Philadelphia	136	85	85		8	24	30	52	54	110
Pittsburgh	99	38	16		0	35	27	36	27	57
Reading	10	6	2	0	0	1	4	3	2	0
Scranton	6	5	3	0	0	0	1	7	2	0
E. NORTH CENTRAL.										
Ohio:									-	
Cincinnati	21	25	5	0	1	0	0	6	14	10
Cleveland	87	55	33		3	1	4	24	34	8 5
Columbus	5	15	6		- 3	0	0	9	11	18
Toledo	20	21	10	0	0	2	1	3	15	18
Fort Wayne	3	5	16	0	0	1	0	6	2	6
Indianapolis	98	27	15	0	0	1	8	8	11	20
South Bend	4	2		0	0	ô	0	2		4
Terre Haute	4	41	1	0	1	0	0	3	2 2	2

City reports for the week ended November 29, 1924-Continued.

		Diph	heria.	Influ	ienza.			Pneu-	Scarle	t fever.
Division, State, and city.	Chick- en pox, cases re- ported.	Cases, esti- mated expect- ancy.	Cases re- ported.	Cases re- ported.	Deaths re- ported.	Mea- sles, cases re- ported.	Mumps, cases re- ported.	monia, deaths re- ported.	Cases, esti- mated expect- ancy.	Cases re- ported
E. NORTH CENTRAL— continued.										
Illinois:								-		
Chicago Cicero	147	198	73	8	3	63	16	33	117	13
Peoria	17	- 4	2	0	0	0	0	2 2 0	8	
Peoria Springfield	2	3	8	0	0	1	0	0	3	
Michigan: Detroit	64	92	48		3	7	12	23	69	8
Flint	11	17	3 7	2	1	1	0	1	11	
Grand Rapids Saginaw	1	8 3	3	0	0	0	0	1 2	8	
Wisconsin:		0								
Madison	7	1	1	0		0	59		32	,
Milwaukee Racine	72	31	11 2	0	0	0	15	8	4	l '
Superior	0	2	ī	ő	0	Ö	0	0	1	
W. NORTH CENTRAL.										
Minnesota:					0	0	0	0		1
Duluth Minneapolis	13 88	25	36	0	1	0	2	5	27	1 3
St. Paul	24	21	20	Ö	0	2	4	9	13	1 2
lowa:	9	2		0		0	0		1	
Des Moines	0	9	1	0		0	0		10	
Sioux City Waterloo	4	3	4	0		0	0		4	
Waterloo Missouri:	6	1	0	0		1	0		4	
Kansas City	11	15	5	3	2	1	0	8	9	1 8
St. Joseph	2	6	4	0	0	0	0	3	30	1:
St. Louis North Dakota;	22	86	61	0	0	1				
Fargo	7	1	0	0	0	. 0	0	1	2	
Grand Forks South Dakota:	0	1	3	0	*****	0	0		2	
Aberdeen	11		0	0		0	0			
Sioux Falls	0	1	1	0	0		0	0	2	
Nebraska: Lincoln	4	2	4	0	0	1	1	2	3	
Omaha	2	8	9	0	0	0	0	7	5	1
Kansas:		2							3	
Topeka Wichita	5	3	3	0	0	0	0	1	4	
SOUTH ATLANTIC.										
Delaware:							0	3	3	
Wilmington Maryland:	3	3	5	0	0	0		0	0	
Baltimore	45	38	40	33	4	2	0	30	21	1 :
Cumberland Frederick	0	1	0	0	0	0	0	0	1	
District of Col.:		'		0						
Washington	25	25	23	1	1	0		15	17	1
Virginia: Lynchburg	-	1							1	
Norfolk	1 16	5	17	0	0	1	9	1	7.	
Richmond	8 2	12	17	0	0	1 0	0	5	1	
Roanoke West Virginia:										
Charleston	20	5	2	0	0	2 0	5 0	1 0	1 2	
Huntington Wheeling	6 15	3	2 2 0	0	0	1	0	2	î	
North Carolina:					1					
Raleigh	6	2	2 0	0	0	0	0	3	2	
Wilmington Winston-Salem	3 0	3	4	0	0	0	1	3	2	
South Carolina:		1						2	1	
Charleston Columbia	0	2 2 0	0	0	0	0	0 7	1	0	
Greenville	0	0	o		0		0	0		1

City reports for the week ended November 29, 1924-Continued.

		Diphtheria.		Influ	enza.	Mea-		Deven	Searle	t fever
Division, State, and city.	Chick- en pox, cases re- ported.	Cases, esti- mated expect- ancy.	Cases re- ported.	Cases re- ported.	Deaths re- ported.	sles, cases re- ported.	Mumps, cases re- ported.	Pneu- monia, deaths, re- ported.	Cases, esti- mated expect- ancy.	Cases re- ported.
SOUTH ATLANTIC— continued.										
Georgia: Atlanta Brunswick Savannah	0 0	6 1 3	6 0 1	3 0 0	1 0 0	0 0	1 0 0	12 0 0	5 0 1	
Florida: St. Petersburg. Tampa	0	0 3	2 2	0	0	0	0	0	0	
EAST SOUTH CEN- TRAL.										
Kentucky: Covington Lexington Louisville Tennessee:	0 1 5	3 2 15	3 2 7	0 0 3	0 0	0 0	0 0	4 2 5	2 1 4	
Memphis Nashville Alabama:	1	11 6	7 2	0	0	0	0	8	3	
Birmingham Mobile Montgomery	3 0 0	7 2 1	0 0 2	3 0 1	3 1 0	0 0	2 0 4	20 2 0	5 1 1	
WEST SOUTH CEN- TRAL.										
Arkansas: Fort Smith Little Rock Louisiana:	1 0	2 2	0	0	0	0	3 0	0	2 3	
New Orleans Shreveport	0	12	13 1	5 0	5.	0	0	4	6	
Oklahoma: Oklahoma Tulsa	1 5	4 7	3	0	0	0	0	0	3 3	
Texas: Dallas Galveston Houston San Antonio	8 0 1 0	15 1 5 5	9 0 0 4	0 0 0	0 0 0 0	0 0 0 1	0 0 0 0	5 0 5 3	4 0 1 1	
MOUNTAIN.			-							
Montana: Billings Great Falls Helena Missoula	23 3	0 1 0 1	0 1 0 2	0 0 0	0 0 0	0 0 0	0	0 1 0 1	1 1 0 1	
Idaho: Boise	7	0	0	0	0	0	0	0	1	
Colorado: Denver Pueblo	26 4	16 6	9	<u>0</u>	2 0	1	19 0	9	9 3	
New Mexico: Albuquerque	0	1	0	0	0	0	0	0	0	
Arizona: Phoenix	1		0	0	0	0	0	2		
Utah: Salt Lake City. Nevada:	44	3	19.4	0	0	1	11	1	3	
Reno	3	0	0	0	0	0	0	0	0	
PACIFIC.										
Washington: Seattle Spokane Tacoma	31 9 1	7 5 3	8 3 8	0 0		1 7 0	11 0 0		6 7 2	1
Oregon:	25	6	18	0	0	1	1	11	6	
Portland California: Los Angeles	44	36	0	3	2	8	6	13	17	3
Sacramento San Francisco	9	3 24	5 20	12	0	0 2	15	1 9	10	

City reports for the week ended November 29, 1924-Continued.

	7	Si	mallpo	x.	is re-	Typ	hoid f	ever.	cases	
Division, State, and city.	Popula- tion July 1, 1923, estimated.	Cases, estimated expectancy.	Cases reported.	Deaths reported.	Tuberculosis, deaths	Cases, estimated expectancy.	Cases reported.	Deaths reported.	Whooping cough, reported.	Deaths, all causes.
NEW ENGLAND.					6					
Maine:										
Lewiston Portland.	33, 790 73, 129	0	0	0	0	0	0	0	0	17
New Hampshire:	10, 129	0	0	0		1	1	0	2	15
Concord	22, 408	0	0	0	0	0	0	0	0	1
Vermont:	1 10 000									
Barre Burlington	1 10, 008 23, 613	0	0	0	0	0	0	0	0	- 3
Massachusetts:	20,010	1	0	0		U	U	0	0	14
Boston	770, 400	0	0	0	11	2	2	0	12	215
Fall River	120, 912 144, 227	0	0	0	1	1	0	0	7	20
Springfield	144, 227	0	0	0	0	0	1	0	0	31
Worcester	191, 927	0	0	0	0	0	0	0	18	50
Pawtucket	68, 799	0	0	0	0	0	0	0	0	2
Providence	242, 378	0	0	0	4	i	3	0	0	63
onnecticut:										
Bridgeport	1 143, 555	0	0	0	1	0	1	0	0	24
Hartford	1 138, 036	0	0	0	1	0	0	0	0	35
New Haven	172, 967	0	0			0	1	0	3	56
MIDDLE ATLANTIC.			1							
lew York:			1	1						
Buffalo	536, 718	0	2	0	5	2	1	0	27	113
New York	5, 927, 625	0	0	0	181	18	72	6	133	1,313
Rochester	317, 867	0	0	0	3	1	1	0	5	64
Syracuse ew Jersey:	184, 511	0	0	C	1	0	0	0	0	44
Camden	124, 157	0	7	0	0	1	0	0	2	25
Newark	438, 699	0	0	0	13	i	8	i	68	97
Trenton	127, 390	0	0	0	2	1	0	0	8	31
ennsylvania:		-			-		-			
Philadelphia	1, 922, 788	0	0	0	36	4	7	0	66	496
Pittsburgh Reading	613, 442	0	0	0	8	2	1 0	0	12	191
Scranton	140, 636	0	0	0	0	0	0	0	2	31
EAST NORTH CENTRAL.										
hio:			1				- 1			
Cincinnati	406, 312	1	0	0	7	1	1	0	5	107
Cleveland	888, 519	2	0	0	14	2	1	0	20	180
Columbus	261, 082	0	0	0	2	1	0	0	0	69
Toledodiana:	268, 338	1	0	0	2	1	1	0	15	44
Fort Wayne	93, 573	0	0	0	0	0	0	0	1	30
Indianapolis	93, 573 342, 718 76, 709	3	5	0	5	1	1	. 3	5	99
South Bend	76, 709	1	0	0	0	0	0	0	0	9
Terre Hauteinois:	68, 939	1	5	0	1	0	0	0	0	26
Chicago	2, 886, 121	1	0	0	55	2	4	0	149	565
Cicero	55, 968	o	0	0	1	ő	0	ő	3	10
Peoria	79, 675	0	0	0	o l	0	0	0	0	10
Springfield	61, 833	1	0	0	0	0	0	0	1	12
ichigan:	005 000	0							-	
DetroitFlint	995, 668	0	0	0	14	3	2	0	33	218
FlintGrand Rapids	117, 968 145, 947	0	0	0	0	0	0	0	0	10
Saginaw	69, 754	0	0	0	0	0	0	0	8	37 15
isconsin:	00,101			-	0	0		0	0	10
Madison	42, 519	1	0			0	0 .		3	4
Milwaukee	484, 595	2	0	0	5	1	1	0	17	88
Kacine	64, 393	0	1	0	1	0	0	0	1	8
Superior	1 39, 671	1	0	0	0	0	0	0	0	6

¹ Population Jan. 1, 1920.

City reports for the week ended November, 29, 1924-Continued.

		s	mallpo	x.	hs re-	Тур	Typhoid fever.			
Division, State, and city.	Popula- tion July 1, 1923, estimated.	Cases, estimated expectancy.	Cases reported.	Deaths reported.	Tuberculosis, deaths ported.	Cases, estimated expectancy.	Cases reported.	Deaths reported.	Whooping cough, reported.	Deaths, all causes.
WEST NORTH CENTRAL.										
Minnesota: Duluth Minneapolis St. Paul	106, 289 409, 125 241, 891	1 4 12	0 61 28	0 12 0	1 3 3	0 1 0	0 0	0 0	1 3 14	2 110 4
Davenport Des Moines Sioux City	61, 262 140, 923 79, 662	0 1 0	9 3 0			0 0	0 0		0	
Waterloo Missouri:	39, 667	0	7			0	0		0	
Kansas City St. Joseph St. Louis	351, 819 78, 232 803, 853	1 1	0 0 7	0 0	3 2 10	1 0 2	0 0 1	0 0	0 0 4	31 21:
North Dakota: Fargo. Grand Forks	24, 841 14, 547	1 0	0	0	0	0	0	0	0	16
Aberdeen Sioux Falls	15, 829 29, 206	0	0	0	0	0	0	0	0	
Lincoln	58, 761 204, 382	1 2	0 11	0	1 4	0	0	0	0	18 5
Kansas: Topeka Wichita	52, 555 79, 261	0	0	0	<u>i</u>	0	····i	0	13	2
SOUTH ATLANTIC.										
Delaware: Wilmington Maryland:	117, 728	0	0	0	1	1	0	0	0	2
Baltimore. Cumberland Frederick	773, 580 32, 361 11, 301	0 0	0 0	0 0	12 0 0	3 1 0	0 0	0	77	20
District of Columbia: Washington		1	0	0	11	2	3	2	7	9
Virginia: Lynchburg	30, 277	0				0				
Norfolk Richmond Roanoke	159, 089 181, 044 55, 502	0 0	0 0	0 0	2 4 2	0 1 0	0 3 0	0 0 1	0 0	5
West Virginia: Charleston	45, 597	0	0	0	0	1 0	1 0	1	0	1
Huntington	57, 918 1 56, 208	0	0	0	0	0	ő	0	ő	1
Raleigh Wilmington Winston-Salem	29, 171 35, 719 56, 230	0 0 1	0 0 2	0 0	0 1 2	0 0	0 0	0 0 1	1 2 0	2
South Carolina: Charleston	71, 245 39, 688	0	0	0	0	1 0 0	1 1 0	0 0	0 1 8	1
Greenville Georgia; Atlanta	25, 789 222, 963	0 2	1	0	4	1	1	1	1	5
Brunswick Savannah Florida:	15, 937 89, 448	0	0	0	0 2	0	0	0	0	3
St. Petersburg	24, 403 56, 050	0	0	0	1 2	0	0	0	0	2
EAST SOUTH CENTRAL.										
Kentucky: Covington Lexington Louisville	57, 877 43, 673 257, 671	0 0	0 0	0 0	0 1 2	0 1 2	0 0 1	0 0	0 0 1	11 11 6
Tennessee: Memphis Nashville	170, 067	1 0	1	0 0	0	1	12 3	2 2	0	55

Population Jan. 1, 1920.

City reports for the week ended November 29, 1924—Continued.

		St	nallpe	ox.	s re-	Тур	hoid	lever.	cases	
Division, State, and city.	Popula- tion July 1, 1923, estimated.	Cases, estimated expectancy.	Cases reported.	Deaths reported.	Tuberculosis, deaths	Cases, estimated expectancy.	Cases reported.	Deaths reported.	Whooping cough, reported.	Deaths, all causes.
EAST SOUTH CENTRAL-contd.										
Alabama: Birmingham Mobile Montgomery	195, 901 63, 858 45, 383	1 0 0	12 0 0	0 0	4 0 0	1 0 0	2 1 0	1 0 0	0 0	17
WEST SOUTH CENTRAL. Arkansas:										1
Fort Smith Little Rock Louisiana:	30, 635 70, 916	0	0		····i	0	3	0	1 0	
New Orleans Shreveport Oklahoma:	404, 575 54, 590	1	0	0	15 0	1	$\frac{5}{0}$	1	8 2	134 30
Oklahoma Tulsa	101, 150 102, 018	1 1	0	0	2	1	0	1	0	10
Texas: Dallas Galveston	177, 274 46, 877	0	0	0	1 0	1 0	0	0	0	51
Houston San Antonio	154, 970 184, 727	0	5	0	6	0	0	0	0	51 57
MOUNTAIN.										
Montana: Billings	16, 927	0	0	0	0	0	0	0	5	5
Great Falls	16, 927 27, 787	0	0	0	0	0	1	1	0	5 7
Helena Missoula	1 12, 037 1 12, 668	0	0	0	0	0	0	0	0	4
Idaho: Boise	22, 806	0	0	0	0	0	0	0	0	3
Colorado:	ama aas								_	-
Denver Pueblo New Mexico:	272, 031 43, 519	5	0	0	9	0	0	0	7	79
Albuquerque	16, 648	0	0	0	5	0	0	0	0	12
Phoenix	33, 899	*****	0	0	8		0	0	0	39
Utah: Salt Lake City	126, 241	2	0	0	2	1	1	0	0	26
Nevada: Reno	12, 429	0	0	θ	0	0	0	0	0	2
PACIFIC.										
Washington:										
SeattleSpokane.	1 315, 685	8	6			0	1 2		4	
Tacoma	104, 573 101, 731	î	0			0	ő		0	
Portland	273, 621	5	5	0	2	1	0	1	0	
Los Angeles Sacramento	666, 853 69, 950	1 0	34	2 0	21	3	2	0	14	198 20
San Francisco	539, 038	0	2	0	8	o l	1	1	5	150

¹ Population Jan. 1, 1920.

City reports for the week ended November 29, 1924-Continued.

	spi	ebro- inal ngitis.	ence	argie pha- is.	Pella	agra.	(i	iomye nfanti ralysi:	le
Division, State, and city.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases, est. ex- pectancy.	Cases.	Deaths.
NEW ENGLAND.									
Massachusetts:									
Boston Worcester	0	0	0	0	0	0	0	2	1
New York:									
New York	3	3	9	6	0	0	3 0	7	1
Rochester New Jersey:									
Newark	0	0	0	0	0	0	0	3	
Pennsylvania: Philadelphia	3	1	2	2	0	0	0	0	(
Indiana:									
South Bend	0	0	0	0	0	0	0	1	(
Illinois: Chicago	0	0	0	1	0	0	1	3	!
Cicero Michigan:	1	0	0	0	0	0	0	0	(
Detroit	2	0	1	0	0	0	0	2	(
WEST NORTH CENTRAL.									
Minnesota:				0	0	0	0	1	
Minneapolis St. Paul	0	0	0	0	0	0	0	i	
Iowa:	0		0		0		0	1	
Davenport									
St. Louis	1	1	0	0	0	0	0	0	1
North Dakota: Fargo	0	0	0	0	0	0	0	1	1
Fargo Grand Forks Nebraska:	0		0		0	*****	0		
Omaha	0	0	0	0	0	0	0	1	1
SOUTH ATLANTIC.									
Delaware: Wilmington	1	1	0	0	0	0	0	0	
Maryland:					0	0	1	1	
BaltimoreVirginia:	0	0	0	1					,
Norfolk	1	0	0	0	0	0	0	0	
North Carolina: Winston-Salem	0	. 0	0	0	1	0	0	0	
South Carolina:	0	0	0	0	0	1	0	0	
Charleston									
Alabama:									
Mobile	0	0	0	0	0	2	0	0	(
Washington:									
Seattle	0		0		0	*****	0	2	
SpokaneOregon:	0	*****	0	*****	0		-		
Portland	0	0	2	0	0	0	0	1	(
California: Los Angeles	2	1	3	0	0	0	0	0	(
San Francisco	0	0	0	0	2	0	0	3	1

The following table gives a summary of the reports from 105 cities for the 10-week period ended November 29, 1924. The cities included in this table are those whose reports have been published for all 10

weeks in the Public Health Reports. Eight of these cities did not report deaths. The aggregate population of the cities reporting cases was estimated at nearly 29,000,000 on July 1, 1923, which is the latest date for which estimates are available. The cities reporting deaths had more than 28,000,000 population on that date. The number of cities included in each group and the aggregate population are shown in a separate table below.

Summary of weekly reports from cities, September 21 to November 29, 1924.

DIPHTHERIA CASES.

		DIPH	THER	IA CA	SES.					
				19	24, wee	k ende	1-			
	Sept. 27.	Oct.	Oct. 11.	Oct. 18.	Oet. 25.	Nov.	Nov. 8.	Nov. 15.	Nov. 22.	Nov. 29.
Total	779	757	883	936	988	965	1, 128	1, 112	1, 115	995
New England. Middle Atlantic. East North Central West North Central South Atlantic. East South Central West South Central Mountain Pacific.	55 255 151 92 89 22 24 18 73	56 198 134 116 97 20 23 24 80	77 209 174 126 142 28 26 14 87	82 250 176 136 121 42 28 18 74	89 228 176 149 172 41 36 23 74	88 235 211 127 131 27 40 28 78	78 304 279 128 148 35 46 38 72	82 312 247 147 109 26 59 36 94	84 314 227 160 129 32 45 27 97	67 284 234 1 150 2 121 21 27 17 44
		ME	ASLES	CASE	is.					
Total.	104	134	130	193	197	241	310	322	400	364
New England Middle Atlantic East North Central West North Central South Atlantic East South Central West South Central West South Central Mountain Pacific	15 38 29 7 3 2 1 3 6	15 65 29 9 2 1 2 2 9	21 56 22 5 10 2 2 0 12	25 97 42 7 4 1 2 5 10	28 92 55 3 2 6 1 2 14 ASES.	32 112 70 7 6 0 0 3 11	36 144 91 7 13 2 1 2 14	41 135 102 10 4 2 1 1 4 23	49 154 131 14 11 2 1 4 34	59 156 114 1 5 2 7 0 2 3 18
Total	586	570	774	795	938	1, 021	1, 153	1,097	1, 238	1, 284
New England Middle Atlantic East North Central West North Central South Atlantic East South Central West South Central West South Central Mountain Pacific	46 128 123 172 36 17 8 16 40	55 129 128 148 29 13 13 18 37	89 154 178 218 46 21 17 15 36	99 168 176 227 48 11 16 19	121 213 214 253 57 14 17 13 36	96 298 256 216 57 24 15 19 40	114 354 270 225 67 29 25 19 50	135 330 262 220 58 14 18 20 40	155 365 303 228 72 17 14 24 60	176 389 307 1 247 2 62 10 20 15 58
		SMA	LLPON	CASI	ES.					
Total	84	86	72	99	134	134	138	192	188	213
New England Middle Atlantic East North Central West North Central South Atlantic East South Central West South Central Most South Central Mountain Pacific	0 6 27 19 3 5 1 1 22	0 8 23 15 6 6 6 0 1 27	0 3 21 21 2 2 2 0 0 23	0 30 27 0 15 3 2 22	0 5 19 64 3 11 2 3 27	0 2 16 70 1 9 2 0 34	0 4 6 82 3 8 2 1 32	0 0 11 100 7 12 8 7 47	0 5 14 85 6 21 6 2 49	9 19 1114 13 13 7 1 47

Figures for Topeka, Kans., estimated. Report not received at time of going to press.
 Figures for Lynchburg, Va., estimated.

Summary of weekly reports from cities, September 21 to November 29, 1924-Con. TYPHOID FEVER CASES.

	1924, week ended—									
	Sept. 27.	Oct.	Oct. 11.	Oct. 18.	Oct. 25.	Nov.	Nov. 8.	Nov. 15.	Nov. 22.	Nov. 29.
Total	281	217	214	159	136	106	124	107	133	16
New England	11 59	9 67	16 45	8 47	6 40	5 35	7 23	5 33	5 46	9
East North Central	39	25	15	17	14	11	14	11	15	i
West North Central	39 17	15	16	11	5	11 9	9	3	8	1
South Atlantic	50 51 17	35	23	20	22 21	13 12 6 5 10	21	10	14	2 1
East South Central	51	29	17	12	21	12	14	20	14	1
West South Central	17	7	15	12	12	6	18	11	13 2 16	
Mountain	18 19	18 12	58	23	10	5	9	8	2	

INFLUENZA DEATHS.

Total	18	20	21	20	18	35	38	43	41	56
New England	1	0	1	1	1	1	5	0	2	2
Middle Atlantic	5 2	10	13	11	9	21	23	17	17	15
East North Central	2	4	4	3 2	5	5	5	5	7	15
West North Central	1	1	0	2	0	0	0	0	0	13
South Atlantic	3	1	1	1	2	5 0 3	3	4	6	3 7
East South Central	3	1	0	1	0	1	1	4	2	5
West South Central	i	1	1	1	0	3	1	7	3	5
Mountain	i	1	1	0	0	3	0	1	4	2
Pacific	i	1	0	0	1	1	0	5	0	2

PNEUMONIA DEATHS.

Total	372	438	494	497	479	593	636	676	646	701
New England	20	29	39	28	27	42	33	35	38	58
Middle Atlantic	152	178	217	221	227	270	305	294	301	300
East North Central	82	94	84	90	77	95	109	116	122	126
West North Central	18	16	25	23	20	28	29	32	36	1 34
South Atlantic	42	52	50	50	65	87	75	83	57	2 83
East South Central	14	22	15	19	13	21	24	46	36	43
West South Central	13	11	31	16	17	21	22	34	20	21
Mountain	11	11	15	22	16	6	8	10	15	13
Pacific	20	25	18	28	17	23	31	26	21	23

Figures for Topeka, Kans., estimated. Report not received at time of going to press.
 Figures for Lynchburg, Va., estimated.

Number of cities included in summary of weekly reports and aggregate population of cities in each group, estimated as of July 1, 1923.

Group of cities.	Number of cities reporting cases.	Number of cities reporting deaths.	Aggregate population of cities reporting cases.	Aggregate population of cities reporting deaths.
Total	105	97	28, 898, 350	28, 140, 934
New England	12	12	2, 098, 746	2, 098, 746
Middle AtlanticEast North Central	10 17	10 17	10, 304, 114 7, 032, 535	10, 304, 114 7, 032, 538
West North Central	14 22	11	2, 515, 330	2, 381, 454
South Atlantic East South Central	7	22 7	2, 566, 901 911, 885	2, 566, 901 911, 885
West South Central	8	. 6	1, 124, 564	1, 023, 013
MountainPacific	9	3	546, 445 1, 797, 830	546, 448 1, 275, 841

FOREIGN AND INSULAR.

BOLIVIA.

Smallpox-Typhus Fever-La Paz-October, 1924.

During the month of October, 1924, 11 deaths from smallpox and three deaths from typhus fever were reported at La Paz, Bolivia. Population, estimated, 100,000.

CANADA.

Communicable Diseases — Ontario — October 26-November 29, 1924 (Comparative).

During the 5-week period ended November 29, 1924, communicable diseases were reported in the Province of Ontario, Canada, as follows:

2/10	1	924	16	023
Disease.	Cases.	Deaths.	Cases.	Deaths
Cerebrospinal meningitis	10	8	2	
Chancroid	3		2	
Chicken pox	1,076		483	
Diphtheria	494	37	374	25
German measles	44			
Gonorrhea	191		91	
Influenza		8		
Lethargic encephalitis	1	1		1
Measles	1,834	4	293	,
Mumps	641		25	
Pneumonia	011	153	20	129
Poliomyelitis	20	2	1	140
	736	10	680	11
Scarlet lever		10	11	11
	21	*******	58	,
	142	********	187	*******
Syphilis				
l'uberculosis	165 89	63	116	58
Typhoid fever		11		13
Whooping cough	488	5	369	

Smallpox in Municipalities.

Of the 21 cases of smallpox reported in the Province 20 occurred in 10 municipalities, the greatest number of cases, viz, 4, being reported at Wainfleet.

LATVIA.

Communicable Diseases-September, 1924.

During the month of September, 1924, communicable diseases were reported in the Republic of Latvia as follows: Dysentery, 92 cases; typhoid fever, 235 cases; typhus fever, 6 cases; paratyphoid fever, 1 case.

(3229)

MADAGASCAR.

Plague-September 16-30, 1924.

During the period September 16 to 30, 1924, 108 cases of plague with 87 deaths were reported in the island of Madagascar. Of these, 6 cases with 4 deaths (bubonic) occurred at the port of Diego Suarez, and 4 cases with 2 deaths (bubonic) at Fort Dauphin, a coast town. For distribution according to Provinces and types of the disease see page 3231.

MEXICO.

Communicable Diseases-Tampico-November 11-20, 1924.

Reports of communicable diseases at Tampico, Mexico, for the period November 11 to 20, 1924, included seven deaths from malaria and three from typhoid fever. One case of smallpox was reported.

RUSSIA.

Epidemic Scarlet Fever-Moscow.

Epidemic scarlet fever has been reported in Moscow, Russia, as follows: In June, 1924, 788 cases were reported; in July, 860 cases; in August, 1,105 cases, and in September, 1,716 cases. On October 1, 1924, 1,726 cases were reported in hospitals.

SUMATRA.

Malaria-Batoe Bahra-August, 1924.

During the month of August, 1924, 224 cases of malaria, of which 23 were fatal, were reported at Batoe Bahra, island of Sumatra.

UNION OF SOUTH AFRICA.

Smallpox-Typhus Fever-September, 1924.

During the month of September, 1924, 8 cases of smallpox, occurring in the colored or native population, and 109 cases of typhus fever with 5 deaths occurring in the colored population and 1 case in the white population, were reported in the Union of South Africa. For distribution of typhus fever prevalence according to States see page 3240.

Outbreaks of Typhus Fever-Oc'ober, 1924.

Outbreaks of typhus fever were reported in the Cape Province during the week ended October 25, and in Natal during the two weeks ended October 18, 1924.

The reports contained in the following tables must not be considered as complete or final as regards either the lists of countries included or the figures for the particular countries for which reports are give 1.

Reports Received During Week Ended December 19, 1924.1

CHOLERA.

			-	*1
Place.	Date.	Cases.	Deaths.	Remarks.
India				Sept. 28-Oct. 11, 1924: Cases, 6,901;
Madras	Nov. 2-8	5	1	deaths, 3,883.
Siam: Bangkok	Oct. 9-18	. 1	1	
	PLA	GUE.		
British East Africa:				in one 1
Kenya				Oct. 19-25, 1925; Cases, 402.
Cevlon:				
Colombo Ecuador:	Oct. 25-Nov. 1	1	1	
Elov Alfaro	Oct. 1-31	1	1	
Guayaquil	do	i	1	Oct. 1-31, 1924: Ratstaken, 19,511; found infected, 50.
India				Sept. 28-Oct. 11, 1924: Cases,
D	04.51			2,113; deaths, 640.
Bombay	Nov. 2-8	102	75	
Madagascar				Sept. 16-30, 1921; Cases, 103;
Province-	1 11			deaths, 87.
Moramanga	Sept. 16-30	24	15	Bubonic.
Tananarive	do	74	66	-
Tananarive Other localities	do	72	65	Do, Bubonic, pneumonic, septicemic.
Towns			00	Buoonic, pheumonic, septicemie.
Diego Suarez	do	6	4 2	Bubonie. Do.
	SMAL	LPOX.		
Bolivia: La Paz	Oct. 1-31	8	11	
Brazil: Pernambuco	04 1 10	2	1	
British East Africa		- 1	1	
Kenya	Oct. 19-25	3		
Uganda	Oct. 5-11		1	
British Columbia				
Vancouver	Nov. 9-15	11		
Manitoba— Winnipeg	Nov. 92.90	1		
Ontario	1101. 20-20			Nov. 1-29, 1924: Cases, 21.
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				Occurrence in municipalities,
14		1		20 cases. Corresponding per- iod, year 1923—cases, 58.
Quebec-				100, year 1921—cases, 55.
Bonaventure and		- 1		
China: Gaspe Counties	Nov. 1-30	2	*******	

4

Oct. 19-25.... Oct. 12-25.... Oct. 25-Nov. 8....

Oct. 1-31.....

Aug. 20-26.....

Dec. 9.....

Present. Do. Do.

Outbreak.

Reported as alas-

1

China:

Guayaquil.....

Egypt: Cairo French Guiana: Cayenne

¹ From medical officers of the Public Health Service, American consuls, and other sources.

Reports Received During Week Ended December 19, 1924-Continued.

SMALLPOX -- Continued,

Place.	Date.	Cases.	Deaths.	Remarks.
India				Sept. 28-Oct. 11, 1924; Cases, 1,112; deaths, 278.
Bombay Karachi Madras	Oct. 5-18 Nov. 2-8do.	5 3 6	. 3 1 2	1,112; deaths, 278.
Java: East Java—				
Pasoeroean Residency. West Java-	Sept. 27		\$8000000v	Epidemic in four localities,
Bantem Residency— Bantem Cheribon Residency—	Sept. 30-Oct. 6	1	******	
Cheribon	Sept. 16-29	4		
Brebes Pekalongan	Sept. 16-22 Sept. 16-Oct. 6 do	17 2	10	
Tegal		1		Sept. 1-30, 1924: One case.
Mexico: Durango	Nov. 1-30		3	
Tampico				
Lisbon Oporto	Oet. 20-Nov. 9 Nov. 9-15		í	
Madrid	Oct. 1-31 Nov. 16-22		13 14	
Tunis:	Nov. 11-24	12	13	
Union of South Africa				Sept. 1-30, 1924: Cases, 8 (native population). Oct. 5-25, 1924: Outbreaks.
Cape Province		*****	******	Oct. 5-25, 1924: Outbreaks.

TYPHUS FEVER.

Detinies				
Bolivia: La Paz	Oet. 1-31	1	3	
Chile:				
Valparaiso	Oct. 26-Nov. 11		3	
Latvia				Sept. 1-30, 1924; Cases, 6.
Mexico:				
Durango	Nov. 1-30	26	1	
Mexico City	Oct. 26-Nov. 8	20		
Palestine: Jaffa	Nov. 4-10	1		
Majdal	Oct. 29-Nov. 4	î		
Ramleh	Oct. 21-27	1		Commence of the second
			********	Sept. 21-27, 1924: Cases, 40
				deaths, 8.
Union of South Africa				Sept. 1-30, 1924: Cases, 110 (white) 1 case: deaths, 5 (colored).
Gara Paradasa				Sept. 1-30, 1924: Cases, 82; deaths,
Cape Province		******		3 (colored).
Do	Oct. 19-25			Outbreaks.
Orange Free State	0000			Sept. 1-30, 1924: Cases, 11; deaths,
				2 (colored).
Natal				Outbreaks.
Transvaal				Sept. 1-30, 1924: Cases, 16 (col- ored).
Y				oreu).
Yugoslavia: Belgrade	Oct. 27-Nov. 2	1		

Reports Received from June 28 to December 12, 1924.1 CHOLERA.

Assessed 1004			1/3
	i		
			Apr. 20-June 28, 1924; Cases
			Apr. 20-June 28, 1924: Cases 81,035; deaths, 56,740. June 29-Sept. 27, 1924: Cases 98,405; deaths, 58,555.
May 4 10	1		98,405; deaths, 58,555.
June 29-Oct. 4	48		
May 11-June 28	293	259	1
. June 29-Sept. 27			
June 1-21			
May 11-June 28			-
June 29-Oct. 25		24	
			Jan. 1-June 30, 1924: Cases, 107 deaths, 52.
2			deaths, 52. July 1-31, 1924: Cases, 20; deaths 10. Corresponding period 1923
June 1-30	4	1	Cases, 42; deaths, 30.
July 1-31	3	i	
June 1-30	7	4	2
July 1-31	7		
June 1-30	7		
		4	Including 100 square kilometers of surrounding country.
June 29-Sept. 13	8		Do.
	3	1	
June 1-30	1	1	June 15-28, 1924: 32 cases, 2: deaths, including suspects
			June 29-July 5, 1924: 5 cases, 4 deaths.
			Suspect. Occurring in a non- resident.
June 21			
June 28-July 26	4	2	
July 20-26 July 13-19	1 2	1	
Mar. 30-Apr. 5	1	1	
May 18-24	_ 1	1	
	_		
July 3	i	i	
July 6-12	1	1	
			Summer of 1924. Cases, 9.
			7 cases at Rostov and Nakhich- evan.
			1 case, Black Sea district.
Aug. 5-7	3		1 case in Kolomensky Uyezd.
Man 4 Tons 00	01	10	
June 29-Oct 4			
June 25-Oct. 1	1.6	0	
June 1-7	1	1	
June 15-28	9	6	
June 29-July 5	2	1	
••••	1	******	At Bassein, Lower Burma, India. Case in European member of crew. Case removed to hos- pital. Vessel left May 16, 1924, arrived June 8 at Durban, South Africa; left Durban June
	Aug. 2-Sept. 6. May 4-10 June 29-Oct. 4 May 11-June 28 June 29-Sept. 27 June 1-21 June 29-Nov. 1 May 11-June 28 June 29-Oct. 25. June 1-30 July 1-31 June 1-30 July 1-31 June 1-30 July 1-31 June 1-30 July 1-31 Apr. 27-June 28 June 29-Sept. 13 June 1-30 July 1-31 June 1-30 July 1-31 June 1-30 July 1-31 June 29-Sept. 13 June 29-Sept. 13 June 29-Sept. 13 June 29-Sept. 13 June 1-30 July 1-31 June 29-July 29-July 29-July 13-19 Mar. 30-Apr. 5 May 18-24 July 13-19 Oct. 3 July 3-19 Oct. 3 July 3-19 Aug. 5-7 May 4-June 28 July 6-12 June 29-Oct. 4 June 1-7	Aug. 2-Sept. 6. 1 May 4-10. 1 June 29-Oct. 4. 48 May 11-June 28. 293 June 29-Sept. 27. 182 June 1-21. 7 June 28-Nov. 1 May 11-June 28. 98 June 29-Oct. 25. 26 June 1-30. 4 July 1-31. 3 June 1-30. 7 July 1-31. 7 June 1-30. 9 July 1-31. 7 Apr. 27-June 28. 6 June 29-Sept. 13. 8 June 1-30. 9 July 1-31. 3 June 1-30. 1 June 29-Sept. 13. 8 June 1-30. 9 July 1-31. 3 June 1-30. 1 June 29-Sept. 13. 8 June 29-Sept. 13. 8 June 1-30. 9 July 1-31. 3 June 1-30. 1 July 6-12. 1 July 6-12. 1 July 13-19. 2 Mar. 30-Apr. 5. 1 May 18-24. 1 July 13-19. 1 Oct. 3. 1 July 3. 1 July 6-12. 1 Aug. 5-7. 3 May 4-June 28. 21 June 1-7. 1 June 15-28. 9 June 29-July 5. 2	Aug. 2-Sept. 6. 1 June 29-Oct. 4. 48 23 259

¹ From medical officers of the Public Health Service, American consuls, and other sources.

Reports Received from June 28 to December 12, 1924—Continued. PLAGUE.

Place.	Date	Cases.	Deaths.	Remarks.
Algeria:				
Mostaganem	July 21-28	4		Seaport.
Chaco Territory				April, 1924: Cases reported.
Azores: St. Michael's	Sept. 21-Oct. 4	4		Suburbs of city: Arrifes, 1 case Faja de Cima, 3 cases.
Brazil:			1	- 1,4
Porto AlegreBritish East Africa:	July 6-12		1	
Kenya Kisumu	Oct. 4-10	5 2	1	
Kisumu	July 13-Sept. 20	1 1	2	
Tankanyika Territory.	Feb. 24-June 7 June 26-Oct. 4	3	11	
Uganda	Sept. 28-Oct. 4	11		May 1-June 30, 1924: Cases, 125
Entebbe	Feb. 1-Apr. 30	59	54	deaths, 107
Canary Islands: Las Palmas	Sept. 8	2		
Teneriffe— La Laguna	June 20	1	********	
Celebes:	July 27-Aug. 2			1 plague rat
Macassar and Menando Ceylon:				
Colombo	May 11-June 28 June 29-Oct. 25	11 21	20	10 plague rodents. Plague-infected rodents, 17.
Chile:		4		
Antologasta	June 1-16 Oct. 19-25	i	********	
China:				
Amoy Do	June 15–28 June 29–Aug. 9	******	13	
Chungking	Oct. 5-11			Present.
Foochow	May 4-June 21		25	Cases not reported.
Nanking	July 20-Oct. 18			Present.
Ecuador:	31 10 01	1		
Eloy Alfaro	May 16-31 Sept. 16-30	i		
DoGuayaquil		5	1	Rats taken, 23,717; found in
Do		2		fected, 107. Rats taken, 44,489; found plague infected, 188.
Posorja	1	1		infected, 188.
Puna		1		Inla 1 Sant 5 1004: Care 16
Egypt			********	July 1-Sept. 5, 1924: Cases, 16 Total Jan. 1-Sept. 5, 1924- cases, 354; deaths, 177.
City—		1	1	
Alexandria Ismailia		i	i	First case, Apr. 2; last, Apr. 2. First case, July 6; last, July 6.
Port Said		5	2	First case, Apr. 24; last, Aug. 26 First case, Jan. 2; last, Sept. 23
Suez		16	8	First case, Jan. 2; last, Sept. 25
Province—			95	Piret core Apr 1: last Aug 2
Assiout		44	35	First case, Apr. 1, last, Aug. 2/
Behera		3	3	First case, June 21: last, June 21
Beni-Suef Charkieh		i	1	First case, Jan. 31; last, Jan. 31
Fayoum		106	33	First case, Feb. 48; last, July 18
Gharbia		3	2	First case, Apr. 21; last, Aug. 23
GharbiaGhirga		10	3	First case, Jan. 17; last, May 13
Kalioubiah		10	1	First case, Jan. 6; last, May 2
Kena		44	26 32	First case, Apr. 9; last, May 17
Menoufieh Minia		49 58	32	First case, Feb. 5: last, June 28.
France		2		First case, Apr. 1; last, Aug. 2; First case, Aug. 9; last, Aug. 9. First case, June 21; last, June 21; First case, Jan. 31; last, Juny 18; First case, Feb. 18; last, July 18; First case, Apr. 21; last, Aug. 2; First case, Jan. 6; last, May 12; First case, Jan. 6; last, May 12; First case, Jan. 2; last, June 2; First case, Jan. 2; last, June 2; First case, Feb. 5; last, Aug. 1. Aug. 1-31, 1921; Cases, 3. Bubonie, occurring in suburbe
Paris	Oct. 1-31	2	*********	St. Medard and St. Ouen.
Gold Coast			*******	January-June, 1924: Cases, 173 deaths, 104. July-August, 1920
				Cases, 142; deaths, 104.
Greece: Kalamata				Reported July 15, 1924: Cases
Patras	July 7	36		29; deaths, 6.
Saloniki	July 3-4	2	********	
Symi, Island of	Aug. 26	11	2	

Reports Received from June 28 to December 12, 1924-Continued.

PLAGUE—Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
Hawaii				July 15, 1924: Near Kukuihaele
Honokaa				July 15, 1924: Near Kukuihaele Island of Hawaii, I plague rat Aug. 19-Sept. 10, 1924: 5 plague infected rodents found in vicin ity. At Paauhau sugar plan tation, Oct. 11, 1924, I plagu
India				rat (trapped). Apr. 20-June 28, 1924: Cases 102.874: deaths, 84,656.
Do	*************			102,874; deaths, 84,656. June 29-Sept. 27, 1924: Cases
Bombay Do	May 4-June 21 June 29-Aug. 30 May 11-June 14 May 18-June 21 Aug. 17-Sept. 25 May 18-31	50 20 10	. 44 . 16 10	8,247; deaths, 6,216.
Karachi Do Madras Presidency	May 18-June 21 Aug. 17-Sept. 25	16 10 7	13 8 2	
Rangoon	May 11-June 28	366 77	242 72	
Do Indo-China	June 29-Oct. 25	232	197	Jan. 1-June 30, 1924: Cases, 734
				deaths, 486. July 1-31, 1924 Cases, 26; deaths, 22. Corre sponding period, 1923: Cases 34; deaths, 30.
Province— Anam	June 1-30	6	5 4	June, 1923: Cases, 11; deaths, 10
Cambodia	July 1-31	18 9	18	June, 1923: Cases, 140; deaths
Cochin-China	June 1-30	4	9	121. June, 1923: Cases, 14; deaths, 10
Do	July 1-31	13	9	
Saigon	May 4-June 28	10	2	Including 100 square kilometer of surrounding country.
Iraq:	July 20-Aug. 9	3	, 1	Do.
Bagdad	Apr. 20-June 28 June 29-Aug. 9	125 7	62	
Italy:				
Naples	Sept. 15	3	1	Including suburb of Portici, case. On Sept. 12 a plague infected rat was found in port of Naples.
14		*****		July 1-31, 1924: 1 case, 1 death JanJuly, 1924: Cases, 4
Shizuoka Prefecture— Higashi				To June 20, 1924: Cases, 2
Java: East Java—				death, 1.
Soerabaya Do	June 8-21 Aug. 31-Sept. 6	14	14	
West Java— Cheribon————————————————————————————————————	Aug. 19-Sept. 15 do	2	2 8	
Madagascar		******		Sept. 1-15, 1924: Cases, 47.
Diego Suarez	June 22-Sept. 23 Sept. 3-24	50 6	42	Seaport.
Moramanga	June 1-30	1	i	Interior.
Tamatave	June 6-30	5	4	Bubonic.
Tananarive Province	Apr. 1-Tuno 30	12	12	Apr. 1-June 30, 1924: Cases, 138 deaths, 128; bubonic, pneu
Do	Apr. 1-June 30 July 1-Aug. 31 Apr. 1-May 31	6	6	monic, septicemic. July 1-
Other localities	Apr. 1-May 31	105	97	monic, septicemic. July 1- Sept. 15, 1924: Cases, 138
Do Mauritius Island	July 1-Aug. 31	64	63	deaths, 130. Dec. 30, 1923–June 28, 1924: Cases 35; deaths, 29. June 29–Sept. 6 1924: Cases, 9; deaths, 8.
Moroeco				JanJune, 1924: Cases, 53 deaths, 3.
Nigeria		1	*******	July, 1924: Case, I; death, I. Bubonic.
Palestine: Jaffa	Oct. 16			Datoonic.
Jaffa Jerusalem	Oct. 16	î	*******	Datione.
Jaffa Jerusalem Persia:	Oct. 14-20	1	12	Dutonic.
Jaffa Jerusalem Persia:	Oct. 14-20		12 6 1	Landed at quarantine.

Reports Received from June 28 to December 12, 1924-Continued.

PLAGUE-Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
Peru				May 1-June 30, 1924: Cases, 9
Do				deaths, 6. July 1-31, 1924: Cases, 6; deaths
G-W	Tun- 1 00			3.
Callao Do	June 1-30 July 1-Oct. 31	6	3	
Chancay	Aug. 1-Oct. 31	1		
Huacho	do	3	1	
Huancabamba	do			
Huaral	Inno 1-20	1		
Do		1	*******	
Lima (city)	May 1-June 30	5	5	
Do	July 1-Oct. 31	16	12	1
Lima (country)	July 1-Oct. 31	1	2	
	Aug. 1-Oct. 31		2	
Mollendo		i	1	
Russia				JanJune, 1924: Cases, 252.
Don Cossack Territory-	-			The state of the s
Salsky district		*******		Aug. 8, 1924: Reported present
iam:				in marmots in 6 localities.
Bangkok	May 4-June 14	3	3	
Do	July 13-Sept. 27	5	4	
liberia: Transbaikalia—				
Dauria	Aug. 9	2	2	At Substation 83, vicinity of
Daura	Aug. V	-	-	Dauria.
Harenor	Sept. 18			Rubonic and puetimonic. Or
***************************************	The section of the se			Bubonic and pneumonic. On line of Chinese and Trans-
				Siberian Railway. In workers
				in tarabagan (marmot) skins.
South Nigeria (West Africa)	:			_
Lagos	Sept. 8	******	******	Present.
yria: Beirut	****** 10 1mm 00	-		
Punis:	July 10-Aug. 20		*******	
Tunis.	Sept. 23-29	1	1	
Inion of South Africa	Бере. 25 25			Apr. 27-June 7, 1924: Cases, 28;
and of Court Historica				deaths, 14. Dec. 16, 1923, to
				May 31, 1924: Cases, 347; deaths, 208 (white, 51 cases, 26
				deaths, 208 (white, 51 cases, 26
				deaths; native, 269 cases, 182 deaths). July 1-Aug. 31, 1924
	1			deaths). July 1-Aug. 31, 1924:
Cape Province-				Cases, 5; deaths, 2.
Uitenhage District				Sept. 28-Oct. 4, 1924: Plague-
Citetinge District.	****	*******		infected mouse found on
				infected mouse found on Haarhof's Kraal farm. Plague
				reported on this farm in Sep-
				tember and October, 1924.
Orange Free State	Aug. 24-30	******		May 11-June 14, 1924: Cases, 21;
Philippolis district	Aug. 24-30	1		deaths, 9. June 22–28, 1924: Plague-infected mouse found
				in Kroonstad district.
Smithfield district	July 13-19.	2		In natives on two farms.
on vessel:	July 10-10-	-		an induses on two latins.
S. S. Amboise	July 10	1		At Marseille, France; removed
		-		to quarantine station Case
				occurred in an Arab fireman
				occurred in an Arab fireman embarked at Aden. Vessel left Yokohama May 30 and
				left Yokohama May 30 and
	1			Colombo, Ceylon, June 22, 1924.

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			1
Algiers	Oct. 1-31	1	
Arabia: AdenBolivia:	July 20-26		1
La Paz Do	May 1-June 30 July 1-Sept. 30	10 28	9 21

Reports Received from June 28 to December 12, 1924-Continued.

SMALLPOX-Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
Brazil:				
Bahia	May 18-24	1		
Porto Alegre	May 18-June 28	1	2	
Do	July 6-Aug. 2		3	
Rio de Janeiro	May 18-24	2		
Do	July 20-Aug. 30	5		
	July 20-Aug. 30			1
British East Africa:				
Kenya-	Man 4 21	3		
Mombasa	May 4-31			
Tanganyika Territory	June 15-21 Aug. 17-23	1		
Do	Aug. 17-23	1		
Uganda, Entebbe British South Africa:	Feb. 1-29	2		
British South Africa:				
Northern Rhodesia	May 6-June 30	74	1	Natives.
Do	July 1-Oct. 13	71		
Canada:				
British Columbia	Sept. 12-Oct. 18	29		
Fernie	Sept. 12-Oct. 18 Nov. 2-15	2		
	June 15-28	11	**********	
Vancouver	June 15-25			Not in cleating subsects
Do	June 29-Nov. 1	59		Not including suburbs.
Victoria	Aug. 3-9	1		
Manitoba-				
Winnipeg New Brunswick—	July 13-Aug. 1	3		
Restigouche County	June 1-30	7		
Do	July 6-Sept. 6	21		Year ended Oct. 31, 1924: Cases
Westmoreland County.	Aug. 17-23	1		36: deaths, 1.
Ontario	g. 11 20	-		June 1-30, 1924: Cases, 24: Jul
Chatham Township	Sept. 28-Oct. 25	31		1-Oct 25 1024: Cases 0
Chatham	do	3		June 1-30, 1924: Cases, 24; Jul 1-Oct. 25, 1924: Cases, 93 Corresponding period, 1923
Unatham		2		Cases, 23.
Harwich Township Howard Township	do			Cases, 25.
Howard Township	do	14		
Macauley Township	do	1		
Sarnia	July 20-26	1		
Toronto	Sept. 28-Oct. 25	1		
Whitney	do	21		Unorganized,
Windsor	June 22-28	1		
. Quebec-		1		
Montreal	June 8-14	1		
Do	Sept. 14-20	î		
Saskatchewan-	Sept. 14 20			
Regina	Oct. 5-Nov. 11	3		
	Oct. 5-Nov. 11			
Ceylon:	T lan 0 10			
Colombo	July 6-12	1		
chile:				
Antofagasta	June 11			Under treatment at Lazaretto,
Do	Aug. 24-30	1		cases.
Valparaiso	June 1-7		1	This report covers the two prin
				This report covers the two principal districts of Valparaiso.
hina:				
Amoy	May 11-June 28			Present.
Do	May 11-June 28 June 29-Oct. 11		1	Do.
Antung	June 9-29	41	3	7.
Do	July 7-Oct. 19	11		
	May 11 June 00	11	********	Do .
Chungking	May 11-June 28 June 29-Oct. 11	*******		Do.
Do	June 29-Oct. 11			Do.
Foochow	May 18-June 28	*******		Do.
Do	July 6-Oct. 11	*******		Do.
Hongkong	May 4-June 28	30	24	
Do	June 29-July 12	3	3	
Manchuria—			11	1000
Dairen	May 12-June 28	22	7	
Do	June 29-Aug 23	5	i	
Harbin	June 29-Aug. 23 May 13-June 23	2		
Nanking	May 18-June 28			Do.
Do	Inly 6-Oct 11		********	Do.
DoShanghai	July 6-Oct. 11			170.
	May 25-31	******	1	D-Mich manistration
Tientsin	May 4-June 28	11	1	British municipality.
hosen:				at the same of the
Fusan	May 1-31	1		
Do	July 25-31	1		1.5.5
colombia:				
Barranquilla	Aug. 3-9		1	
uba:				

Reports Received from June 28 to December 12, 1924-Continued.

SMALLPOX—Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
Czechoslovakia				Apr. 1-June 30, 1924: Cases, 7
State-				deaths, 2.
Bohemia	Apr. 1-June 30	6	2	
Russinia	do	1		
Denmark:		-		
Copenhagen	May 18-31	3	1	- 11
Dominican Republic:	A 04 90	2		
La Romana	Aug. 24-30	2		
Egypt: City—				
Alexandria	June 4-10	1		
Do	Sept. 3-Oct. 28	4	1	
Cairo	Feb. 19-June 24	163	45	
Do	June 25-Aug. 19	20	5	
Port Said	June 18-24	1	2	
Do	June 25-Sept. 9	4		
France:	1 mg 1 3f 21			
Limoges	Apr. 1-May 31 May 1-31	*******	2	
Marseille	May 21-31	2		
Gibraltar	July 21-Nov. 2	10	1	
Great Britain:		10		
England and Wales				May 25-June 28, 1924: Cases, 342;
aregum and manuscree				June 29-Nov. 1, 1924: Cases,
				918.
Liverpool	Aug. 28	1		Mild. Admitted to port hospital from Lower Bebington district,
				from Lower Bebington district,
Greece:			-	2 miles from docks.
Athens	Sept. 21-30		2	
Saloniki			21 41	11 1
Haiti:	June 30-Oct. 4		- 21	
Port au Prince	July 6-12	2		Developed at Cape Haitien.
Hungary:		-		Developed at Cape Hantelli.
Budapest	July 20-Aug. 2	21		
India				Apr. 20-June 28, 1924: Cases,
				28,396; deaths, 6,753.
Do				June 29-Sept. 27, 1924: Cases, 12, 284; deaths, 3,012.
				12, 284; deaths, 3,012.
Bombay	May 4-June 28	432	299	
Do	June 29-Oct. 4 May 11-June 28	207	134	
Calcutta		36 110	32 83	
Do Karachi	May 18 - Iron 98	51	18	
Do.		36	16	
Madras		32	10	
Do	June 29-Nov. 1. May 11-June 28.	224	73	
Rangoon.	May 11-June 28	53	21	
De	June 29-Oet. 25	52	17	
Indo-China				Jan. 1-June 30, 1924: Cases, 4,936;
				deaths, 1,413. July 1-31, 1924:
				Cases, 119, deaths, 51. Corresponding period, 1923: Cases,
Province-	1			268; deaths, 108.
Anam	June 1-30	23	2	June, 1923: Cases, 2.
Do	July 1-31	11	7	
Cambodia	July 1-31	35	21	June, 1923: Cases, 156.
Do	July 1-31	28	13	
Cochin-China	June 1-30	145	55	June, 1923: Cases, 70; deaths, 35,
Do	July 1-31	73	31	
Saigon	Apr. 27-June 28	145	79	Including 100 square kilometers
			-	of surrounding country.
Do	June 29-Oct. 4	70	27	Do.
Tonkin	June 1-30 July 1-31	31	2	
Do	July 1-31		*******	
Bagdad	Apr. 20-May 24	8	1	
Do		1		
Italy:	1			1.00
Messina	May 26-June 1	1	******	
Jamaica				June 1-28, 1924; Cases, 141; June 29-Oct. 25, 1924; Cases, 299.
				29-Oct. 25, 1924; Cases, 299.
*************	Tunis Lon	6		(Reported as alastrim.)
Kingston	June 1-28	- 6		Reported as alastrim.

Reports Received from June 28 to December 12, 1924-Continued.

SMALLPOX—Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
Japan				July 1-31, 1924: Cases, 51; deaths, 9; Jan. 1-July 31, 1924: Cases,
Kobe	May 26-June 21	3		9; Jan. 1-July 31, 1924: Cases,
Nagoya	June 8-14	2		1,693; deaths, 264.
Tokyo	do	1		
Java:				
East Java—				
Madoera Residency-				
Sampang	May 22			Epidemic.
Malang	May 22 May 25–31 July 4–Sept. 2	5 7	1	
Malang Pasoeroean Residency	July 4-Sept. 2	7		Epidemic in some localities.
Rembang	Aug 29-Sept 2			Do.
Soerabaya	Apr. 13-June 28	501	143	
Do	Aug. 29-Sept. 2 Apr. 13-June 28 June 29-Oct. 4	1, 430	388	Epidemic Aug. 10, 1924, in 4
TV 4 7	.,			localities.
West Java—	Man 91 Tune 07	3		
Batavia	May 31-June 27	6		Province.
Do	May 31-June 27 July 6-Aug. 22 Aug. 26-Sept. 15		·····i	Flovince.
Brebes	Aug. 26-Sept. 15	1		
Cheribon	Aug. 19-25			Aug. 19-25, 1924; Cases, 12
Pekalongan Province				Aug. 19-25, 1924; Cases, 12
Pekalongan	Aug. 19-Sept. 15 Aug. 19-Sept. 1	14	3 7	deaths, 2.
Pemalang	Aug. 19-Sept. 1	5	7	
Tegal	Aug. 19-Sept. 8	7	*******	1 1 Y 00 1001 C
Latvia			*******	Apr. 1-June 30, 1924: Cases, 3, July 1-31, 1924: Case, 1.
Mexico:				outy 1-51, 1024. Cust, 1.
Cecilia	Oct. 11-17	5	1	State of Tamaulipas,
Durango	June 1-30		2	
Do	Sept 1-Oct 31		2	
Guadalajara	June 1-30 Sept. 1-Oct. 31 May 1-June 30	9	4	The state of the s
	July 8-14		i	
Mexico City	May 4-June 28	96		Including municipalities in Fed-
		***		eral district. Do.
Do	June 29-Oct. 18	76	1	10.
Progreso.	Oct. 19-25			
Salina Cruz	May 25-31	1	1	
Saltillo	Nov. 2-8		2	
Tampico	June 14-20	2		
Do	July 1-Nov. 10	17	11	
Tuxtepec	July 3-18	3	1	State of Oaxaca.
Vera Cruz	Sept. 21-Nov. 16		16	
Palestine				June 17-23, 1924: 20 cases in
Samaria Province—	May 27-June 2	,		northern districts.
Samak	May 21-June 2			
	Tomas O			Present.
Asuncion	June 2		*******	Many cases reported.
Encarnacion	OD			Many cases reported.
Persia:	Y 1 00	2	4	
Bushire	June 1-30	2		
Peru:	Jan. 1-June 30		5	
	Jan. 1-June 30		9	Mar. 30-June 28, 1924: Cases,
Poland				299: deaths. 27.
Do				299; deaths, 27. June 29-Sept. 20, 1924: Cases, 48;
				deaths, 9.
Portugal:	** ** **	-		
Lisbon	May 25-June 28	7	8	
Po	June 29-Oct. 19	34	8	
Oporto	June 29-Oct. 19 May 11-June 28	18	16	
Do	June 29-Nov. 1	22	27	
Russia		********	********	Jan. 1-31, 1924: 2,243 cases.
Moscow	July 27-Aug. 9	- 37		
Siam:	A 07 T 14	3	-	
Bankok	Apr. 27-June 14 Sept. 7-13	1	5	
Do	серь, г-13			
Spain: Barcelona				Year 1923: Cases, 160.
	Ammot Conton	23	2	1 cm 1920. Cases, 100.
Do	August-September	23	5	
Cadiz	June 1-30 July 1-Sept. 30	******		The second secon
Do	July 1-Sept. 30		114	Tulu Contember 1004 Cons 200
Madrid	Aug. 1-Sept. 30 June 29-Nov. 15		6	July-September, 1924: Cases, 300
Malaga	June 29-Nov. 15		117	deaths, 30. Oct. 6, 1924: In-
Malaga Santander	Aug. 24-30		4	crease in prevalence reported.
Valencia	June 8-21	3		
Do	July 13-Oct. 25	5	1	
Vigo	Aug. 17-23		1	
Straits Settlements:				
Singapore		2	1	

Reports Received from June 28 to December 12, 1924-Continued.

SMALLPOX—Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
Sumatra:				
Medan Switzerland:	Jan. 1-31	5	1	
Berne	May 25-June 28 June 29-Sept. 27	22		
. Do	June 29-Sept. 27	13		
Lucerne	Aug. 1-Oct. 31	46		
Damaseus	May 28-June 12 Aug. 7-Oct. 22	12		
Tunis:	May 27-June 30	17		
Do	July 1-Nov. 10	50	38	
Turkey: Constantinople	June 1-7	1		
Do	Aug. 17-Sept. 27	2		
Union of South Africa				Mar. 1-June 20, 1924: Cases, 167 (white, 15; native, 152). July 1-Aug. 31, 1924: 4 cases (white); 36 cases, 12 deaths (native). Outbreaks.
Cape Province	July 20-Sept 20			Do.
East London	May 4-31 July 20-Sept. 20 July 27-Aug. 2	1		Do.
Orange Free State	May 4-10 Aug. 17-Sept. 13.			Do.
Do	Aug. 17-Sept. 13			Do.
Transvanl	May 4-10			Do.
Do	July 20-Aug. 16			Do.
Johannesburg Yugoslavia	July 6-12	1		January-June, 1924: Cases, 308;
2 19				deaths, 62. July, 1924: Cases, 9; deaths, 3.
BelgradeOn vessels:	July 28-Aug. 3	1		
S. S. Dront	Sept. 14-27	1		At Pernambuco, Brazil. Case removed to hospital. Vessel
S. S. Karoa	May 7	1		At Durban, South Africa, from Bombay, India. Vessel left
S. S. Mount Evans	July 8	1		At Pernambuco, Brazil. Casa removed to hospital. Vessel left Cadiz, Spain, Aug. 20, 1924. At Durban, South Africa, from Bombay, India. Vessel left Bombay Apr. 16, 1924. Pa- tient, European. At Key West, Fla., from Man- chester, England.
	TYPHUS	PEVE	R	***
	TYPHUS	PEVE	R	
			R	Year 1923: Cases, 1,166, of which
Algeria	May 1-June 30.	PRVE		
Algiers	May 1-June 30 July 1-Oct. 31	24 5	9	Year 1923: Cases, 1,166, of which 27 were in the military popu-
Algiers	May 1-June 30 July 1-Oct. 31 Sept. 1-30	24	9 2	Year 1923: Cases, 1,166, of which 27 were in the military popu-
Algiers. Do. Argentina: Rosario Bolivia: La Paz.	May 1-June 30 July 1-Oct. 31	24 5	9	Year 1923: Cases, 1,166, of which 27 were in the military popu-
Algiers Do. Argentina: Rosario Bollvia: La Paz Brazil: Port Alegre	May 1-June 30 July 1-Oct. 31 Sept. 1-30	24 5	9 2	Year 1923: Cases, 1,166, of which 27 were in the military popu-
Algiers Do Argentina: Rosario Bolivia: La Paz Brazii: Port Alegre Bulgaria: Sofia:	May 1-June 30 July 1-Oct. 31 Sept. 1-30 July 1-Sept. 30	24 5	9 2	Year 1923: Cases, 1,166, of which 27 were in the military popu-
Algiers Do Do Argentina: Rosario Bolivia: La Paz Brazii: Port Alegre Bulgaria: Soña Chile:	May 1-June 30 July 1-Oct. 31 Sept. 1-30 July 1-Sept. 30 June 1-7	24 5 1	9 2	Year 1923: Cases, 1,166, of which 27 were in the military popu- lation.
Algiers Do Argentina: Rosario Bolivia: La Paz Brazil: Port Alegre Sofia Sofia Antofagasta Antofagasta	May 1-June 30 July 1-Oct. 31 Sept. 1-30 July 1-Sept. 30 June 1-7 Aug. 17-23	24 5 1	2	Year 1923: Cases, 1,166, of which 27 were in the military popu-
Algiers Do Argentina: Rosario Bolivia: La Paz Brazil: Port Alegre Sofia Sofia Antofagasta Antofagasta	May 1-June 30 July 1-Oct. 31 Sept. 1-30 July 1-Sept. 30 June 1-7 Aug. 17-23 May 20-26.	24 5 1	9 2	Year 1923: Cases, 1,166, of which 27 were in the military popu- lation.
Algiers Do Argentina: Bosario Bolivia: La Paz Brazii: Port Alegre Bulgaria: Sofia Chile: Antofagasta Concepcion Do Iquique	May 1-June 30. July 1-Oct. 31. Sept. 1-30. July 1-Sept. 30. June 1-7. Aug. 17-23. May 20-28. July 8-Oct. 13. June 22-28.	24 5 1	2 1	Year 1923: Cases, 1,166, of which 27 were in the military popu- lation.
Algiers Do Do Argentina: Rosario Bolivia: La Paz Brazii: Port Alegre Bulgaria: Sofia Chile: Antofagasta Concepcion Do Iquique Do	May 1-June 30. July 1-Oct. 31. Sept. 1-30. July 1-Sept. 30. June 1-7. Aug. 17-23. May 20-28. July 8-Oct. 13. June 22-28. Oct. 19-25.	24 5 1	2 1	Year 1923: Cases, 1,166, of which 27 were in the military popu- lation.
Algiers. Do. Argentina: Rosario Bollvia: La Paz. Brazii: Port Alegre Bulgaria: Soña. Chile: Antofagasta Concepcion Do. Iquique Do. Talcahuano.	May 1-June 30. July 1-Oct. 31. Sept. 1-30. July 1-Sept. 30. June 1-7. Aug. 17-23. May 20-28. July 8-Oct. 13. June 22-28. Oct. 19-25.	24 5 1	2 1 3 6 1 2	Year 1923: Cases, 1,166, of which 27 were in the military popu- lation.
Algiers Do Argentina: Bosario Bollvia: La Paz Brazil: Port Alegre Sofia Chile: Antofagasta Concepcion Do Iquique Do Talcahuano Do	May 1-June 30. July 1-Oct. 31. Sept. 1-30. July 1-Sept. 30. June 1-7. Aug. 17-23. May 20-28. July 8-Oct. 13. June 22-28. Oct. 19-25.	24 5 1	2 1	Year 1923: Cases, 1,166, of which 27 were in the military popu- lation.
Algiers Do Argentina:	May 1-June 30. July 1-Oct. 31. Sept. 1-30. July 1-Sept. 30. June 1-7. Aug. 17-23. May 20-28. July 8-Oct. 13. June 22-28.	24 5 1	2 1 3 6 1 2	Year 1923: Cases, 1,166, of which 27 were in the military popu- lation.
Algiers. Do. Argentina: Rosario Bollvia: La Paz. Brazii: Port Alegre Bulgaria: Soña: Chile: Antofagusta. Concepcion. Do. Iquique. Do. Talcahuano. Do. Valparaiso. Do. China:	May 1-June 30. July 1-Oct. 31. Sept. 1-30. July 1-Sept. 30. June 1-7. Aug. 17-23. May 20-28. July 8-Oct. 13. June 22-28. Oct. 19-25. May 25-31. June 29-Nov. 8. May 25-June 21. June 29-Oct. 25.	24 5 1	2 1 3 6 1 2	Year 1923: Cases, 1,166, of which 27 were in the military popu- lation.
Algiers Do. Argentina: Bosario Bollvia: La Paz Brazii: Port Alegre Bulgaria: Sofia Chile: Antofagasta Concepcion Do. Iquique Do. Talcahuano Do. Valparaiso Do. China: Antung Chungking Chungking	May 1-June 30. July 1-Oct. 31. Sept. 1-30. July 1-Sept. 30. June 1-7. Aug. 17-23. May 20-26. July 8-Oct. 13. June 22-28. Oct. 19-25. May 25-31. June 29-Nov. 8. May 25-June 21.	24 5 1	2 1 3 6 1 2	Year 1923: Cases, 1,166, of which 27 were in the military popu- lation.
Do.	May 1-June 30. July 1-Oct. 31. Sept. 1-30. July 1-Sept. 30. June 1-7. Aug. 17-23. May 20-26. July 8-Oct. 13. June 22-28. Oct. 19-25. May 25-31. June 29-Nov. 8. May 25-June 21. June 29-Oct. 25. June 2-16. May 11-June 14.	24 5 1 1 2	2 1 3 6 1 2	Year 1923: Cases, 1,166, of which 27 were in the military population. June 16, 1924: 2 cases in lazaretto.
Algiers Do Argentina: Rosario Bollvia: La Paz Brazil: Port Alegre Bulgaria: Sofia Chile: Antofagasta Concepcion Do Iquique Do Talcahuano Do Valparaiso Do China: Antung Chungking Antung Chungking Manchurla—Harbin	May 1-June 30. July 1-Oct. 31. Sept. 1-30. July 1-Sept. 30. June 1-7. Aug. 17-23. May 20-26. July 8-Oct. 13. June 22-28. Oct. 19-25. May 25-31. June 29-Nov. 8. May 25-June 21. June 29-Oct. 25. June 2-16.	24 5 1	2 1 3 6 1 2	Year 1923: Cases, 1,166, of which 27 were in the military population. June 16, 1924: 2 cases in lazaretto.
Algiers Do Argentina: Rosario Bollvia: La Paz Brazil: Port Alegre Bulgaria: Soña Chile: Antofagasta Concepcion Do Iquique Do Talcahuano Do Valparaiso Do China: Antung Chungking Manchuria Harbin Chemulpo	May 1-June 30. July 1-Oct. 31. Sept. 1-30. July 1-Sept. 30. June 1-7. Aug. 17-23. May 20-26. July 8-Oct. 13. June 22-28. Oct. 19-25. May 25-31. June 29-Nov. 8. May 25-June 21. June 29-Oct. 25. June 2-16. May 11-June 14. Sept. 17-23. May 1-June 30.	24 5 1 1 2 2 6 2 10 10	2 1 3 6 1 2 44 11 41	Year 1923: Cases, 1,166, of which 27 were in the military population. June 16, 1924: 2 cases in lazaretto. Present.
Algiers. Do. Argentina: Rosario Bollvia: La Paz. Brazi: Port Alegre Bulgaria: Soña: Chile: Antofagasta. Concepcion. Do. Iquique Do. Talcahuano. Do. Valparaiso Do. China: Antung Chungking Manchurla— Harbin Chosen:	May 1-June 30. July 1-Oct. 31. Sept. 1-30. July 1-Sept. 30. June 1-7. Aug. 17-23. May 20-28. July 8-Oct. 13. June 22-28. Oct. 19-25. May 25-31. June 29-Nov. 8. May 25-June 21. June 29-Oct. 25. June 2-16. May 11-June 14. Sept. 17-23.	24 5 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	2 1 3 6 1 2	Year 1923: Cases, 1,166, of which 27 were in the military population. June 16, 1924: 2 cases in lazaretto. Present.

Reports Received from June 28 to December 12, 1924-Continued.

TYPHUS FEVER-Continued,

Place.	Date.	Cases.	Deaths.	Remarks.
Czechoslovakia				Apr. 1-June 30, 1924: Cases, 6.
State			1	injust a valid day town clinica, as
Slovakia	Apr. 1-June 30	4		
Egypt:				7
Alexandria	June 25-Aug. 26	5	1	
Cairo		53		
Do		25	14	
Port Said		3		
Esthonia				Apr. 1-June 30, 1924: Cases, 37,
Germany:				July 1-Sept. 30, 1924: Cases, 3
Coblenz	July 13-19	2		
Great Britain:				
England-				
St. Helens	July 13-Sept. 20	8	3	One suspect case: July 10, 1924
Ireland-				Locality, vicinity of Liverpool
Dublin	June 8-14	1		
Do	July 13-19	1		
Lismore		i		
Longford	do	i		
Greece				JanApr., 1924: Cases, 178
Saloniki	Apr. 20-May 4	6		deaths, 27.
Do		2	2	Statute, St.
		2	1	JanJune, 1924: Cases, 221
Hungary				JanJune, 1924: Cases, 221 deaths, 19.
Iraq:	A 07 Mar 10	2		ueatus, 19.
Bagdad	Apr. 27-May 10	î		
Do	Aug. 3-9			
Ireland:				
Ballinasice		1	*******	1-1 a. 1001 C 0 I 1
apan				July 1-31, 1924: Cases, 2. Jan. 1-
				July 31, 1924: Cases, Sedeaths, 1 Apr. 1-June 30, 1924: Cases, 108
Latvia				Apr. 1-June 30, 1924: Cases, 108
City—	1			July 1-Aug. 31, 1924: Cases, 17.
Riga		1	********	
Lithuania				JanJune, 1924: Cases, 556; deaths, 48. July, 1924: Cases,
Mexico:				deaths, 48. July, 1924: Cases,
Durango	July 1-31	*******	2	24.
Guadalainra	May 1-June 30	2	2	
Mexico City		59		Including municipalities in Fed
				eral district.
De	June 29-Nov. 8	151		Do.
Torreon			6	
Palestine:				
Acre	Aug. 19-25	1		
Jaffa	June 17-23	i	-	
Do	July 8-Oct. 20	6		
Jerusalem	July 1-Sept. 29	7		
Kantara		i		
	Aug 17	i		
Khulde Ramleh district	Aug. 17 Oct. 14-20	i		
	Aug. 26-Sept. 1	i		
Safad	Ang 10.93	1		
Tiberias	Aug. 19-25	1		
Peru:	Jan. 1-June 30		4	
Arequipa	Jan. 1-June 30		3	
	July 1-Aug. 31		3	M 00 Lun 00 1004 Cone
Poland				Mar. 30-June 28, 1924: Cases,
				2,947; deaths, 277. June 29-Sept. 20, 1924: Cases, 641;
Do				June 29-Sept. 20, 1924: Cases, 641;
Portugal:				deaths, 34.
Oporto	June 15-21		1	
Russia				Jan. 1-31, 1924: Cases, 14,275.
Moscow	July 27-Aug. 9	4		
pain:				
Barcelona	July 10-16		1	
Malaga	Sept. 6-Oct. 11		2	
witzerland:				5
Lucerne	Sept. 1-Oct. 31	2		
yria:		-		
Aleppo	July 8-14	1		
Damascus	July 14-20	î		
Tunis:		*		
Tunis	May 27-June 9	4		
Turkey:	stay at valid been			
Constantinople	May 18-June 21	7	2	
Do	July 6-Oct. 18	14	13	
1/0	July 0 Oct. 15	1.3	10	

Reports Received from June 28 to December 12, 1924—Continued. TYPHUS FEVER—Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
Union of South Africa				Mar. 1-June 30, 1924: Cases, 418 deaths, 45. July 1-Aug. 31 1924: Cases, 212; deaths, 31 (Colored, 203 cases; white, 6
Cape Province				cases.) Mar. 1-June 30, 1924: Cases, 249 deaths, 23. July 1-Aug. 31, 1924: Cases, 122
Natal				deaths, 16. Sept. 14-20, out- breaks. Mar. 1-June 30, 1924: Cases, 27
DurbanOrange Free State				deaths, 5. July 1-Aug. 31, 1924: Cases, 12; deaths, 1. Mar. 1-June 30, 1924: Cases, 83
Harrismith District	Sept. 28-Oct. 4			deaths, 11. July 1-Aug. 31, 1924: Cases, 40; deaths, 12. Outbreak. On farm.
TransvaalJohannesburg	May 11-24	2		Mar. 1-May 31, 1924: Cases, 39, deaths, 5. July 1-Aug. 31, 1924: Cases, 29; deaths, 2.
Yugoslavia				January-June, 1924: Cases, 252 deaths, 14. July 1-31, 1924. Cases, 9; deaths, 3.
Zagreb	Sept. 7-13	1		Citato, of actions, or

YELLOW FEVER.

Brazil: Pernambuco British Honduras	May 11-17	2	1	Nov. 22, 2924: Prevalent in Stann
Gold Coast	************	ì		Creek District near Belize. Dec. 4, 1924: Cases, 3. May, 1924: Cases, 2; deaths, 2
Salvador: San Salvador	June 10-Aug. 25			July, 1924: Cases, 2; deaths, 1. Present in San Salvador and vicinity.